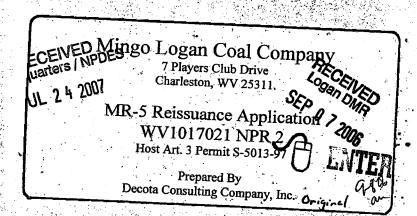
Permit #:	WV1017021	
Doc Type 1:_	Renewal	
Doc Type 2:_	2007-08-07	
Doc Type 3:		





DEPARTMENT OF THE ARMY

HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

January 22, 2007

REPLY TO ATTENTION OF:

Operations and Readiness Division Regulatory Branch 199800436-3 (Section 10: Coal River)

Mr. John McDaniel Arch Coal, Inc. 7 Players Club Drive Charleston, West Virginia 25311

Dear Mr. McDaniel:

File Mining Hobet Mining HV 1017021

Enclosed in duplicate is the Department of the Army (DA) Clean Water Act Section 404 permit authorizing you to place dredged and fill material into approximately 8.11 acres of waters of the U.S., including 0.12 acre of emergent wetland, 10,630 linear feet (1.83 acres) of ephemeral stream channels, and 28,698 linear feet (6.126 acres) of intermittent stream channels, and 165 linear feet (0.034 acre) of perennial stream channel, in conjunction with the construction, operation, and reclamation of the Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2]. Post-project stream restoration and compensatory mitigation efforts will also involve activities within waters of the U.S. as described below. The proposed project would be located in the East District of Logan County, West Virginia at Latitude 38°52'39" and Longitude 81°47'52" depicted on the United States Geological Survey 7.5-minute Clothier and Amberstdale Quadrangles. The mine site is located approximately two miles northeast of Blair, in Logan County, West Virginia. Public Notice Number 199800436-3, issued by my office on October 12, 2005, advertised the proposed project. Please include this public notice number in all future correspondence concerning this project.

Restoration and/or enhancement efforts will be performed on-site in the 6,307 linear feet (1.0430 acres) of intermittent stream channels and 825 linear feet (0.19 acre) of perennial stream temporarily affected by sediment control, erosion protection zones, and the office and warehouse area, and off-site in 8,772 linear feet (11.31 acres) of Spruce Fork and 2,500 linear feet (3.27 acres) of Rockhouse Creek. In addition, mitigation will include creation of approximately 43,565 linear feet (9.8810 acres) of low-gradient intermittent (22,027 linear feet/5.17 acres) and ephemeral (21,538 linear feet/4.71 acres) stream channel on-site and off-site development of approximately 26,625 linear feet (0.61 acre) of high-gradient intermittent (11,330 linear feet/0.26acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels in areas currently characterized as non-jurisdictional.

Upon acceptance of the terms and conditions of the enclosed DA permit, you must sign and date both copies on Page 3 and return one of the red-lined copies of the permit within 30 days from the date of this letter. A fee of \$100.00 required for this permit must be returned to the District Engineer with the permit copy. Check or money order should be made payable to Finance and Accounting Office, USAED-Huntington.

Also enclosed is a form titled "Notification of Administrative Appeal Options and Process and Request for Appeal." You are hereby advised the following option is available to you in your evaluation of the enclosed DA Individual Permit. You may accept the Individual Permit or you may decline to accept the Individual Permit because you object to certain terms and conditions therein. If you decline this Individual Permit, you may request the Individual Permit be modified according to your objections. Your signature on the DA permit means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

If any changes in the location and plans of the work are found necessary, revised plans must be submitted to this office for approval, as required by law, before the work is begun. Enclosed is a copy of the permit to be kept at the site during construction. It is recommended that you supply a copy of the permit to your project engineer responsible for the construction. Upon completion of the work and associated compensatory mitigation, the attached certification must be signed and returned to this office.

Further, it is our understanding that the U.S. Environmental Protection Agency's (USEPA) Conflict Prevention and Resolution Center will be providing neutral assessment services to facilitate the development of a cumulative impact assessment and restoration plan for the Little Coal River. We look forward to working with you, the USEPA and others in completing this collaborative effort. We are hopeful that this important endeavor will result in meaningful restoration and mitigation opportunities directed to mountaintop mining. If you have any questions, please contact Mrs. Teresa Spagna of the South Regulatory Section at 304-399-5710.

Sincerely,

Dana R. Hurst

Colonel, Corps of Engineers

on A fluit

District Engineer

Enclosures

Copies Furnished: (NEXT PAGE)

Copies Furnished:

Mr. Ken Politan West Virginia Department of Environmental Protection 601 57th Street Charleston, West Virginia 25304 With enclosures

Mr. Thomas Chapman United States Fish and Wildlife Service 694 Beverly Pike Elkins, West Virginia 26241 With enclosures

Mr. David Rider U. S. Environmental Protection Agency Environmental Programs Branch 1659 Arch Street (3ES30) Philadelphia, Pennsylvania 16103-2029 With enclosures

Ms. Susan Pierce West Virginia Division of Culture and History 1900 Kanawha Boulevard Charleston, West Virginia 25605-0300 With enclosures

Mr. Roger Anderson West Virginia Division of Natural Resources Post Office Box 67 Elkins, West Virginia 26241 With enclosures

Mr. Terry Sammons Sammons Law Offices, PLLC Post Office Box 1747 Gilbert, West Virginia 25621 With Enclosures

DEPARTMENT OF THE ARMY PERMIT

Permittee Mingo Logan Coal Company

Permit No. 199800436-3 (Section 10: Coal River)

Issuing Office Huntington District

NOTE: The term "you" and its derivatives, as used in this permit, means the permitte or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: You are authorized to place dredged and fill material into approximately 8.11 acres of waters of the U.S., including 0.12 acre of emergent wetland, 10,630 linear feet (1.83 acres) of ephemeral stream channels, and 28,698 linear feet (6.126 acres) of intermittent stream channels, and 165 linear feet (0.034 acre) of perennial stream channel, in conjunction with the construction, operation, and reclamation of the Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2]. Construction of the proposed valley fills will result in the permanent placement of approximately 16,698 cubic yards of dredged and fill material into 24,023 linear feet of intermittent streams, 6,955 linear feet of ephemeral streams, and 0.12 acre of emergent wetlands. Removal of bituminous coal reserves underlying stream beds will result in the discharge of 1,703 cubic yards of dredged and fill material into 2,161 linear feet of intermittent stream segments and 3,675 linear feet of ephemeral stream segments of the 1st unnamed right tributary of the Right Fork of Seng Camp Creek, Pigeonroost Branch and its 2nd unnamed left tributary, 4th unnamed right tributary, 1st unnamed left tributary of the 4th unnamed right tributary, 3rd unnamed right tributary, 1st unnamed left and right tributaries of the 3rd unnamed right tributary, Oldhouse Branch and its 1st unnamed left and right forks. Construction of the proposed drainage control structures and associated erosion protection zones will result in the temporary placement of approximately 576.6 cubic yards of dredged and fill material into 165 linear feet of perennial stream channel and 1,185 linear feet of intermittent stream channels. Lastly, the construction of the proposed office and warehouse area will result in the discharge of approximately 358 cubic yards of fill material into 1,329 linear feet of Pigeonroost Branch and its 1st unnamed left intermittent and 2nd unnamed right intermittent tributaries. Post-project stream restoration and compensatory mitigation efforts will also involve activities within waters of the U.S. Restoration and/or enhancement efforts will be performed on-site in the 6,307 linear feet (1.04 acres) of intermittent stream channels and 825 linear feet (0.19 acre) of perennial stream temporarily affected by sediment control, erosion protection zones, and the office and warehouse area, and off-site in 8,772 linear feet (11.31 acres) of Spruce Fork and 2,500 linear feet (3.27 acres) of Rockhouse Creek.

Project Location: The proposed project will be located in the East District of Logan County, West Virginia at Latitude 38°52'39" and Longitude 81°47'52" on the United States Geological Survey 7.5-minute Clothier and Amberstdale Quandrangles. The proposed project will result in disturbances to the Right Fork of Seng Camp Creek, Pigeonroost Branch, Oldhouse Branch and several of their unnamed tributaries. The streams on-site exhibit surface water connections to Spruce Fork of the Little Coal River, which ultimately flows into the Coal River, a navigable (Section 10) water of the U.S.

Permit Conditions:

General Conditions:

- The time limit for completing the work authorized ends on <u>December 31, 2031</u>. If you find that you need more time to
 complete the authorized activity, submit your request for a time extension to this office for consideration at least one month
 before the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions: Special conditions are found on the attached sheet titled "SPECIAL CONDITIONS FOR THE PERMIT ISSUED TO MINGO LOGAN COAL COMPANY FOR THE CONSTRUCTION, OPERATION, AND RECLAMATION OF THE SPRUCE NO. 1 SURFACE MINE [SURFACE MINING CONTROL AND RECLAMATION ACT (SMCRA) PERMIT S-5013-97, INCIDENTAL BOUNDARDY REVISION 2] ADMINSTRATIVE RECORD 199800436-3."

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
- 2. Limits of this authorization:
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability: In issuing this permit, the Federal Government does not assume any liability for the following:
 - Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.
 - b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
 - Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the tems and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

ENG FORM 1721, Nov 86

EDITION OF SEP 82 IS OBSOLETE

(33 CFR 325 (Appendix A))

Table 1
Spruce No. 1 Mine
Summary of Activities in Waters of the United States
ADMINISTRATIVE RECORD: 199800436-3

Structure I.D.	Jurisdictional Volume of Fill (Cubic Yards)	Total Volume of Fill (Million Cubic Yards)		
Valley Fill No. 1A	1245.84	11.82		
Valley Fill No. 1B	169.44	1.53		
Valley Fill No. 2A	5512.54	39.30		
Valley Fill No. 2B	2952.36	13.85		
Valley Fill No. 3	1154.17	3.43		
Valley Fill No. 4	5663.60	40.07		
Mine Through Area	1702.91	N/A		
EPZ - Valley Fill Nos. 2A & B	293.86	N/A		
Pond No. 2	38.67	N/A		
Pond No. 2A	26.89	N/A		
Office Area Fill	358.31	N/A		
Pond No. 2B	44.44	N/A		
Pond No. 2C	47.50	N/A		
Pond No. 3	43.06	N/A		
Pond No. 4	82.15	N/A		

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Table 2
Spruce No. 1 Mine
Summary of Permanent and Temporary Impacts to Streams
ADMINISTRATIVE RECORD: 199800436-3

Structure ID	Impact Area	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Impacts (feet/acres)
Valley Fill No. 1A	Il No. 1A 1 st unnamed right tributary of Right Fork of Seng Camp Creek		1,950/0.4563	50/0.0103	2,000/0.4666
Mine Through Area	1st unnamed right tributary of Right Fork of Seng Camp Creek	0	0	700/0.0907	700/0.0907
Valley Fill No. 1A	lst unnamed right tributary of lst unnamed right tributary of Seng Camp Creek	0	700/0.0482	0	700/0.0482
Valley Fill No. 1B	2 nd unnamed right tributary of Right Fork of Seng Camp Creek	0	250/0.0264	500/0.0436	750/0.0700
Pond Nos. 2, 2A, 2B, 2C, Office Fill Area, and EPZ-2AB	Pigeonroost Branch - Segment 1	0	1,889/0.2403	0	1,889/0.2403
Valley Fill No. 2A	Pigeonroost Branch - Segment 1	0	183/0.0168	0	183/0.0168
Valley Fill No. 2A	Pigeonroost Branch - Segment 2	0	5,750/1.4506	0	5,750/1.4506
Mine Through Area	Pigeonroost Branch - Segment 2	0	350/0.0439	600/0.0298	950/0.0737
Office Fill Area	1 st unnamed left tributary of Pigeonroost Branch	0	225/0.0181	0	225/0.0181
EPZ-2AB	2 nd unnamed left tributary of Pigeonroost Branch	0	10/0.0011	0	10/0.0011
Mine Through Area	2 nd unnamed left tributary of Pigeonroost Branch	0	108/0.0141	0	108/0.0141
Valley Fill No. 2A	3 rd unnamed left tributary of Pigeonroost Branch	0	150/0.0164	0	150/0.0164
Valley Fill No. 2A	4 th unnamed left tributary of Pigeonroost Branch	0	50/0.0006	0	50/0.0006
Valley Fill No. 2A	4 th unnamed right tributary of Pigeonroost Branch	0	2,800/0.5831	0	2,800/0.5831
Mine Through Area	4 th unnamed right tributary of Pigeonroost Branch	0	25/0.0014	175/0.0057	200/0.0071
Valley Fill No. 2A	1 st unnamed left tributary of 4 th unnamed right tributary of Pigeonroost Branch	0	1,225/0.2105	0	1,225/0.2105
Mine Through Area	1 st unnamed left tributary of 4 th unnamed right tributary of Pigeonroost Branch	0	301/0.0563	0	301/0.0563
EPZ-2AB	3 rd unnamed right tributary of Pigeonroost Branch	0	250/0.0669	0	250/0.0669

Structure ID	Impact Area	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Impacts (feet/acres)
Valley Fill No. 2B	3 rd unnamed right tributary of Pigeonroost Branch	0	4,500/1.0899	0	4,500/1.0899
Mine Through Area	3 rd unnamed right tributary of Pigeonroost Branch	0	1,377/0.1226	0	1,377/0.1226
Valley Fill No. 2B	1 st unnamed left tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	50/0.0052	510/0.0635	560/0.0687
Mine Through Area	1 st unnamed left tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	0	340/0.0305	340/0.0305
Valley Fill No. 2B	1st unnamed right tributary of 3rd unnamed tributary of Pigeonroost Branch	0	0	530/0.0615	530/0.0615
Mine Through Area	1 st unnamed right tributary of 3 rd unnamed tributary of Pigeonroost Branch	0	0	270/0.0320	270/0.0320
Office Fill Area	2 nd unnamed right tributary of Pigeonroost Branch	o	90/0.0083	0	90/0.0083
Pond No. 3	l st unnamed right tributary of Pigeonroost Branch	o	75/0.0178	0	75/0.0138
Valley Fill No. 3	1st unnamed right tributary of Pigeonroost Branch	Ø	1,860/0.4360	220/0.0410	2,080/0.4770
Pond No. 4	Oldhouse Branch - Main Stem	165/0.0339	0	0	165/0.0339
Valley Fill No. 4	Oldhouse Branch - Main Stem	0	3,690/1.0859	3,370/0.8134	7,060/1.8993
Mine Through Area	Oldhouse Branch - Main Stem	0	0	30/0.0028	30/0.0028
Valley Fill No. 4	1 st unnamed left tributary of Oldhouse Branch	0	400/0.0413	0	400/0.0413
Valley Fill No. 4	2 nd unnamed left tributary of Oldhouse Branch	0	0	400/0.0505	400/0.0505
Valley Fill No. 4	1 st unnamed left fork of Oldhouse Branch	0	0	140/0.0269	140/0.0269
Mine Through Area	1 st unnamed left fork of Oldhouse Branch	0	0	360/0.0489	360/0.0489
Mine Through Area	1 st unnamed right fork of Oldhouse Branch	0	0	1,200/0.2250	1,200/0.2250
Valley Fill No. 4	2 nd unnamed right tributary of Oldhouse Branch	0	65/0.0187	1,235/0.2544	1,300/0.2731
Valley Fill No. 4	I st unnamed right tributary of Oldhouse Branch	0	400/0.0494	0	400/0.0494
	Total	165/0.0339	28,723/6.1261	10,630/1.8305	39,518/7.9905

SPECIAL CONDITIONS FOR THE SECTION 404 CLEAN WATER ACT PERMIT ISSUED TO MINGO LOGAN COAL COMPANY FOR THE CONSTRUCTION, OPERATION AND RECLAMATION OF THE SPRUCE NO. 1 SURFACE MINE [SURFACE MINING CONTROL AND RECLAMATION ACT (SMCRA) PERMIT S-5013-97, INCIDENTAL BOUNDARY REVISION 2] ADMINISTRATIVE RECORD 199800436-3

- 1. The construction, operation and reclamation of Spruce No. 1 Mine [Surface Mining Control and Reclamation Act (SMCRA) Permit S-5013-97, Incidental Boundary Revision 2] shall be conducted in accordance with the attached drawings.
- 2. The water quality certification issued by the West Virginia Department of Environmental Protection dated December 19, 2005 is attached hereto and made a part of this permit. All conditions attached to or contained therein are hereby incorporated by reference as being special conditions of the USACE permit.
- 3. The permittee shall implement and abide by the Compensatory Mitigation Plan (CMP) entitled "Compensatory Mitigation Plan for the Permanent and Temporary Impacts to Waters of the United States Associated with the Mingo Logan Coal Company Spruce No. 1 Mine WVDEP Permit No. S-5013-97, IBR No. 2... November 2006." This CMP replaced the CMP (dated March 2006) made a part of the Final Environmental Impact Statement prepared for this proposed project. This plan includes the following elements: on-site creation of approximately 43,565 linear feet of low-gradient intermittent (22,027 linear feet/5.17 acres) and ephemeral (21,538 linear feet/4.71 acres) stream channels by modifying and enhancing post-reclamation surface channels that run along the perimeter of the mined and reclaimed area; off-site development of 26,625 linear feet of high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels (these are the areas where the surface water flows from the created channels would be directed to provide a hydrological connection to a surface tributary system of navigable waters); on-site restoration of 6,307 linear feet of ephemeral and intermittent stream channels and 825 feet of perennial stream channel; off-site enhancement of 8,772 linear feet of Spruce Fork; off-site rehabilitation and enhancement 2,500 linear feet of Rockhouse Creek; on-site creation 0.48 acre of emergent wetlands; and, preservation in perpetuity through execution of a deed restriction of all above referenced mitigation areas, including all riparian buffers. A 50-foot vegetative riparian zone, consisting of native herbaceous, shrub and tree species, will be established along the created, enhanced, and restored stream channels as well as the created emergent wetland. The permittee shall implement the mitigation work plan and complete the initial construction and plantings in accordance with the timeframes specified in the above referenced CMP. Completion of all elements of this CMP is a requirement of this permit.
- 4. The on- and off-site mitigation sites will be protected via a protective real estate instrument. The permittee shall dedicate in perpetuity by the appropriate real estate instrument as aquatic resource mitigation, 6,307 linear feet of restored ephemeral and intermittent stream channels and 825 linear feet of restored perennial stream channels, 8,772 linear feet of enhanced perennial channel in Spruce Fork, 2,500 linear feet of rehabilitated and enhanced intermittent channel in Rockhouse Creek, 0.48 acre of created emergent wetlands, 43,565 linear feet of created low-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet) streams, and 26,625 linear feet of high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels, and all riparian and buffer zones associated with each of these aquatic resource mitigation sites. The mitigation areas shall not be disturbed, except by those activities that would not adversely affect the intended extent, condition, and function of the mitigation areas. Unless otherwise specified, livestock grazing, mowing and similar activities are not allowed. The permittee shall survey the mitigation area, develop appropriate restrictive instruments for the surveyed areas, submit the appropriated real estate instrument to the USACE for review and approval, and record the USACE approved real estate instrument with the Logan County Clerk. The protective real estate instrument must stipulate that the mitigation areas shall be properly

marked and shall not be disturbed, except by those activities that will not adversely affect the intended extent, condition, and function of the mitigation areas. Unless otherwise specified, livestock grazing, mowing and similar activities are not allowed. The instrument must also include a map depicting the boundary of the preservation site. The permittee shall provide a copy of the recorded instrument for the mitigation areas within 60 days from the date of the permit. The restriction shall not be removed from the deed or modified without written approval of the USACE and conveyance of any interest in the property must be subject to the recorded instrument.

- 5. The permittee's responsibility to complete the required compensatory mitigation as set forth in Special Condition 3 will not be considered fulfilled until they have provided documentation supporting mitigation success and have received written verification from the U.S. Army Corps of Engineers that areas within the mitigation area intended to become:
 - a. waters of the United States meet the definition of waters of the United States under the Regulatory Program regulations applicable on the date of this permit;
 - b. waters of the United States are functioning as the intended type of waters of the United States and at the level of ecological performance prescribed in the mitigation plan referenced in Special Condition 3 above; and,
 - c. buffer and riparian zones and other areas integral to the enhancement of the aquatic ecosystem are functioning as the intended type of ecosystem component and at the level of ecological performance prescribed in the mitigation plan referenced in Special Condition 3 above.
- 6. The final compensatory mitigation plan must ensure the created, restored, developed, and enhanced stream segments provide sufficient habitat for the aquatic environment. A habitat assessment must be performed to determine the habitat scoring of each mitigation project sites, as indicated in the mitigation plan referenced in Special Condition 3 above. If the mitigation efforts do not meet this performance standard, efforts indicated by the applicant's Contingency Plan or other corrective measures will be required.
- 7. Upon reclamation of the site, the affected stream channels will be restored to their approximate original contours. The contours of the restored stream channel must be based on actual pre-construction cross-sections or reference reach. If the mitigation efforts do not meet this performance standard, efforts indicated by the applicant's Contingency Plan or other corrective measures will be required.
- 8. The permittee shall install appropriate bank protection measures, such as rock riprap, revegetation, other acceptable clean non-contaminated material or native grasses and forbs, in channel or barren areas requiring erosion control.
- 9. The permittee must use natural stream channel design techniques and concepts to determine the appropriate hydrogeomorphic configuration of the reconstructed/restored, established, and enhanced stream channels. The permittee shall incorporate in-stream enhancement measures, such as riffle/pool complexes, eddy rocks, aquatic habitat structures, and meanders within the reconstructed/restored and established stream channels to provide habitat for future aquatic diversity. All restored/reconstructed, established, and enhanced stream channels must be designed in a manner that will not eliminate partial canopy closure over these channels. The use of grout is prohibited to prevent the loss of hydrology in the restored and established ephemeral stream channels. The permittee shall notify the USACE to discuss other alternative methods.
- 10. A minimum of a 50-foot vegetated buffer zone (25 feet on each stream side), consisting of native riparian grasses, shrub, and tree species, will be planted along 7,132 linear feet of restored perennial and

intermittent streams, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26ac) and ephemeral (15,295 linear feet/0.35 ac) streams, and 0.48 acre of emergent wetlands. The native plantings must consist of a minimum of 70% woody tree stems and no more than 25% these trees should be soft mast producers (i.e. ash, maple, sycamore and etc.). Woody stems should be irregularly placed along the corridor and low growing shrubs should be planted between trees. All trees and shrubs must be selected based upon their hydrologic and edaphic tolerances, wildlife food and cover value and should be native to the project area. The riparian or buffer zone must have a cumulative succession rate of at least 400 stems (tree and shrub stems) three years after planting, as well as, throughout the monitoring period. The use of chicken wire, hardware cloth, repellants, or other materials may be necessary to achieve succession requirements in areas with a beaver population.

- a. Invasive plant species are prohibited from use in the 50 foot riparian buffer zones along 7,132 linear feet of restored perennial and intermittent streams, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 ace) streams, and 0.48 acre of emergent wetlands. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. The permittee must submit to the USACE a detailed revegetation plan, consisting only of native, non-invasive species, within 60 days of this Department of the Army permit. The planting plan must incorporate a minimum of 400 trees and 100 shrubs per acre, with an 80% survival rate after 5 years. Woody stems (400 per acre) shall be irregularly placed along the corridor and low growing shrubs (100 per acre) should be planted between trees. All trees and shrubs shall be selected based upon their hydrologic and edaphic tolerances, wildlife food and cover value and shall be native to the project area. At least 5 herbaceous species, 4 shrub species, and 5 tree species shall be used along each of the 50-foot mitigation riparian buffer zones.
- b. Preventative measures will be taken to inhibit invasive species from establishing in the vegetated buffer zones along the mitigation areas. Upon discovery of invasive species, the permittee shall coordinate removal efforts with the USACE to determine appropriate eradication techniques. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. On February 3, 1999, Executive Order 13112 was issued to discourage the introduction of invasive species and provide for their control to minimize the economic, ecological, and human health impacts that invasive species cause.
- 11. As-built channel surveys will be conducted to document the dimension, pattern, and profile of the along 6,307 linear feet of restored intermittent stream channels, 825 linear feet of restored perennial stream channel, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 43,565 linear feet of created intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 26,625 linear feet of developed high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels. Permanent cross-sections will be established during this survey for use during future monitoring surveys. At a minimum, two permanent cross-sections will be established in each mitigation area. The locations will be selected to represent approximately 50 percent of the riffle habitat and 50 percent of the pool areas. The as-built surveys will include photographic documentation at cross-sections and structures, a plan view diagram, vegetation information, and a pebble count for at least three cross-sections per reach.
- 12. Within 6 weeks of completion of mitigation construction (i.e. site preparation and planting), a report

must be submitted to the USACE describing the as-built status of the mitigation project(s). Topographic maps must be submitted showing as-built contours of the mitigation streams. The location of plantings and other installations or structures shall be indicated. Additionally, the USEPA Rapid Bioassessment Protocol and West Virginia Stream Condition Index must be performed.

- 13. Physical habitat and benthic communities will be assessed in the created, enhanced, and restored mitigation stream segments using EPA Rapid bioassessment protocols for use in streams and wadeable rivers (EPA 841-B-99-002), WVDNR's "Standard Conditions for Environmental Assessments in Wadeable Streams" and USEPA's alternative West Virginia Stream Condition Index (WV-SCI) rating system described in the "A Survey of the Condition of Streams in the Primary Region of Mountain Top Removal/ Valley Fill Coal Mining March 1999, U.S. EPA, Region III)." The WVSCI and Rapid Bioassessment Protocol scores will be compared to pre-mining or baseline conditions or reference reaches. The scores, when sampling is conducted during similar seasons, should either be equal to, or greater than, pre-mining disturbances indicating stream channels are functioning as the intended type of waters of the United States prescribed in the mitigation plan and at the level of ecological performance determined by the USACE with input from other Federal and state resource agencies.
- 14. Water chemistry and physiochemical parameters will be collected at each of the created, enhanced, and restored mitigation stream segments in accordance with the USEPA (2000) "Interim Chemical/Biological Monitoring Protocols for Coal Mining Permit Applications."
- 15. All mitigation sites must be monitored for a minimum of 10 years, annually, following completion of the applicant's proposed compensatory mitigation efforts. The District Engineer may extend the monitoring past the minimum 10 years based upon a determination that performance standards have not been met or the compensatory mitigation project(s) is not on track to meet them (e.g. high mortality rate of vegetation). The District Engineer may also revise the monitoring requirements when remediation is required. The mitigation sites may require monitoring more often than annually during the early stages of development to quickly address problems and/or concerns associated with the mitigation site. Monitoring reports must be submitted to and received in this office by December 31 of each year following the first full year of completion of restoration and creation activities. The first report must contain as-built drawings of all mitigation areas. All reports must provide a status of the created, enhanced and restored stream segments, including photographs and narrative descriptions of channel development. Completed USEPA Rapid Bioassessment Protocol forms, Bank Erosion Hazard Index forms and USEPA Environmental Monitoring and Applications Programs Visual Riparian Estimate forms, benthic macroinvertebrate data, and physical and chemical water quality data and any additional approved functional assessment data pertinent to evaluating the success of the proposed mitigation for permanent impacts must be submitted with each annual monitoring report for a minimum period of 10 years. In order to provide a comparison of stream and wetland development throughout the years of required monitoring, it would be helpful to provide these scores with each submitted monitoring report.
- a. To ensure coordination with resource agencies one original and five copies of the monitoring report should be submitted for review. Failure to submit monitoring reports constitutes permit non-compliance.
- b. Annual monitoring reports must include details sufficient for an inspector to determine compliance with performance standards and to identify any required remedial actions. At a minimum, the following information is required:
 - i. Corps Permit Number
 - ii. Name and contact information of permittee and consultant
 - iii. Name of party responsible for conducting the monitoring and the date(s) the inspection was conducted.

- iv. A restatement of the compensation site plan goals, objectives and performance standards (i.e. A summary paragraph defining the purpose of the approved project, acreage and linear feet and type of aquatic resources impacted, and mitigation acreage and linear feet and type of aquatic resources authorized to compensate for the aquatic resource impacts.)
- v. Written description on the location and any identifiable landmarks of the compensatory mitigation project including information to locate the site perimeter(s).
- vi. Directions to the mitigation site(s).
- vii. Dates the compensatory mitigation commenced and/or was completed.
- viii. A description of monitoring methods must be provided. If using sampling methods, include sample size, statistical justification for sampling regime and data analyses performed. If appropriate, include assessment of natural population growth by target species.
- ix. Identify of any structural failures or external disturbances on the site, and describe any management activities and/or corrective measures that were implemented during the previous year. A description of all differences between the approved mitigation plan and the as-built mitigation site and rationale for variance from the approved mitigation plan.
- x. List the monitoring requirements and performance standards, as specified in the approved compensatory mitigation plan and special conditions of the DA permit, and evaluate whether the compensatory mitigation sites are successfully achieving the approved performance standards or trending toward success. A table is one option for comparing the performance standards to the conditions and status of the developing mitigation sites.
- Summary data must be provided to substantiate the success and/or potential challenges associated with the compensatory mitigation projects. Photo documentation (displayed on 8 ½" x 11" paper, dated, and clearly labeled with the direction from which the photo was taken) may be provided to support the findings and recommendation referenced in the monitoring report and to assist the Corps project manager in assessing whether the compensatory mitigation project is successful for the monitoring period. A site map must be provided showing the mitigation site perimeter, location of data collection and photo documentation.
- xii. A description of the conditions of the compensatory mitigation sites and an assessment of the presence and level of occurrence of invasive species and the degree to which performance standards are being met must be included. A description of the status of all erosion control measures on the compensation site(s) and a discussion of their functioning status and details on the need for their continued use.
- xiii. If performance standards are not being met, a brief explanation of the difficulties and potential remedial actions proposed by the permittee, including a timetable, must be provided. The District Engineer will ultimately determine if the mitigation site is successful for a given monitoring period.
- xiv. Monitoring reports are required even if no work is conducted during the reporting period.
- 16. The permittee is reminded that remedial measures are necessary to achieve or maintain achievement of the success criteria and otherwise improve the extent to which the mitigation site(s) replace the functions and values lost due to project impacts.
- 17. If an annual performance criterion is not met for all or any portion of the stream mitigation projects in any year, or if the final success criteria are not met, the permittee shall prepare an analysis of the cause(s) of failure and, if determined necessary by the USACE, propose remedial actions for approval.

- 18. The permittee will arrange an on-site meeting with the USACE during the growing season after the first, third, fifth, seventh, ninth, and tenth year reports are submitted. The purpose of the meeting is to determine if the stream mitigation sites have been constructed in accordance with the approved mitigation plan referenced in Special Condition 3 above and are functioning as expected. If it is determined the mitigation is not developing as expected after the submittal of the third year report, a contingency plan must be provided to this office that details the measures taken to allow the streams to reach their proposed functional status. A current jurisdictional delineation of all waters of the United States on the site may also be required for review. Problems, if any, of the mitigation areas shall be addressed and potential solutions must be incorporated into actions the permittee would take to allow the mitigation waters to reach their proposed functional status or provide additional approved mitigation. The permittee is responsible for implementing reasonable corrective measures recommended by the USACE.
- 19. Following submittal of the tenth year monitoring report, a determination of the stream and wetland success will be made by the USACE. The following performance standards must be achieved in regards to stream and wetland mitigation before the permittee may be released from further monitoring requirements:
 - a. Work must have taken place in accordance with the submitted plans.
 - b. The stream mitigation work must be constructed in a manner that provides stable stream channels with in-stream structures to provide sufficient stability and aquatic habitat for future aquatic diversity.
 - c. At a minimum, the criteria on the attached table must be met for stream mitigation to be determined successful.
 - d. A minimum of 0.48-acre of emergent wetlands exhibiting all three wetland parameters (i.e. hydric soils, hydrology and hydrophytic wetland plants) must be present as depicted on the drawing entitled "Wetland Mitigation Design Exhibit No. 16" and exhibit a surface water connection to a surface tributary system.
 - e. A total of 43,565 linear feet of created low-gradient ephemeral and intermittent streams and 50.0 acres of riparian zone must exhibit surface water connections via 26,625 linear feet of created high-gradient ephemeral and intermittent stream channels which would then drain into existing surface tributary systems as depicted on Exhibit 4 of the CMP.
 - f. Water must flow above ground when present in the stream channel.
 - g. A minimal 85% of the primary channel bottom in the proposed mitigation channels will be free of sediment.
 - h. At least 80 percent aerial cover of established shrub, tree and herbaceous species must be present in each of the vegetation strata.
 - i. The permittee has agreed to monitor for the presence of invasive species within the boundaries of the mitigation site, which includes the riparian stream corridor and associated upland buffers. Invasive species reproduce rapidly, forming stands that exclude nearly all other plant species. In the worst cases, they radically alter the ecosystem processes, alter natural areas, and displace native species. Should the presence of any of these species be documented at any time during monitoring procedures, you should contact this office to discuss appropriate measures needed to control and eradicate these species.
 - j. All mitigation streams must be protected by a minimum 50-foot wide vegetated upland buffer, where practicable.

If required performance has not been met, the monitoring period may be extended and the permittee may be required to revise the existing mitigation site or identify new potential mitigation area(s).

- 20. The final detailed engineering plans, including a planting plan (consisting of species that are non-invasive and native to Logan County, West Virginia), must be submitted for the restored 6,307 linear feet of intermittent stream channel and 825 linear feet of perennial stream channel, 8,772 linear feet of enhanced Spruce Fork, 2,500 linear feet of rehabilitated and enhanced Rockhouse Creek, 0.48 acre of created emergent wetlands, 43,565 linear feet of created low-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) streams, and 26,625 linear feet of developed high-gradient intermittent (11,330 linear feet/0.26 acre) and ephemeral (15,295 linear feet/0.35 acre) stream channels, and all riparian and buffer zones (total of 93.4 acres) associated with each of these aquatic resource mitigation sites. Planting requirements are under Special Condition 10. All cross-section views of streams proposed to be restored, enhanced, created, and established must be superimposed on cross-sections of existing streams or other appropriate reference reaches. These cross-sections must reflect existing and proposed conditions taken at appropriate intervals and must not be presented as "typical cross-sections." The permittee must submit the plans to this office within 120 days of the date of this authorization. Five copies of the plans should be submitted to expedite agency coordination.
- 21. It is the permittee's responsibility to ensure: permission is received from all landowners; the work is performed in compliance with the Department of the Army permit special conditions; perpetual protection is provided to the U.S. Army Corps of Engineers; and, long-term monitoring and maintenance is performed.
- 22. An interagency team, including members from the U.S. Army Corps of Engineers, the U.S. Environmental Protection Agency (USEPA), the U.S. Fish and Wildlife Service), the West Virginia Department of Environmental Protection, and the West Virginia Division of Natural Resources has been assembled to address the needs for a headwater stream assessment procedure for the State of West Virginia. The team is considering a variety of methods that have been developed to assess stream quality. Efforts are also underway by the USEPA to facilitate the development of a functional assessment protocol to measure ecosystem functions of headwater streams and assess functional impacts that result from valley filling activities in the Appalachian Coal Region of West Virginia using established protocols. USEPA proposes to develop a functional stream assessment that can be used by regulators and to justify the use of structural measures in assessing functions of waters. USEPA has proposed to develop and assess rapid techniques to measure functional properties (i.e. organic matter decomposition rates; nutrient transport and uptake; primary production and metabolism; secondary production; and organic matter retention and transport) and to assess the relationships between functional and structural measures. Upon finalizing these stream assessment protocols, the permittee shall use these tools to assess the success of the proposed mitigation sites. The biological, chemical, and physical data collected during the annual monitoring events and required under Special Conditions 13 and 14 of this Department of the Army Permit will be used in these proposed protocols.
- 23. Construction activities will be performed during low flow conditions. All disturbed areas shall be seeded and mulched to minimize erosion.
- 24. In-stream filling activities are prohibited during the fish spawning season (April through June) unless a waiver is granted by the West Virginia Department of Environmental Protection.
- 25. Best management practices (BMPs), including but not limited to utilization of silt fences, straw bales, check dams, limiting vegetation removal and bank shaping to the maximum extent practicable, mulching and seeding, and the prohibition of the use or storage of toxic or hazardous materials within the construction areas, must be implemented during construction activities.

- 26. No construction activities may begin within the proposed off-site mitigation area of Spruce Fork until you received written notification from this office stating Section 106 of the National Historic Preservation Act (NHPA) has been fulfilled. This authorization for the proposed off-site mitigation activities in Spruce Fork is not valid until the provisions of the NHPA have been satisfied. Attached is a copy the West Virginia Division of Cultural and History correspondence dated December 14, 2006 regarding the proposed compensatory mitigation plan.
- 27. Sites 46LG123 and 46LG 131-133 must be avoided with a 100-foot buffer zone. The boundaries of these sites must be marked with appropriate fencing or other protective means. In the event any previously unknown historic or archaeological sites or human remains are uncovered while accomplishing the activity authorized by this permit, you must cease all work immediately and contact local, state and county law enforcement offices (only contact law enforcement on findings of human remains), our office at (304) 399-5710, the West Virginia Division of Culture and History at (304) 558-0220, Ziibiwing Center of Anishinabe Culture and Lifeways The Saginaw Chippewa Indian Tribe at 800-225-8172 Extension 54750, the Delaware Nation NAGPRA Office at 405-247-2448, the Delaware Tribe of Indians at 918-336-5272, the Prairie Band Potawatomi Nation at 785-966-4007, Eastern Shawnee Tribe of Oklahoma at 918-666-2435, Wyandotte Nation, Keweenaw Bay Indian Community at 906-353-6623, Little Traverse Bay Bands of Odawa Indians at 231-242-1451, In accordance with a voluntary agreement established between the U.S. Army Corps of Engineers and Native American Tribes, consultation pursuant to the Native Americans Grave Protection and Repatriation Act will be performed in all cases involving the discovery of human remains.
- 28. The proposed project is not likely to adversely affect threatened or endangered species or their critical habitat. The May 2004 bat-mist net survey will be remain valid until May 15, 2007 unless otherwise modified by the U.S. Fish and Wildlife Service-West Virginia Field Office.
 - a. Section 7 obligations under Endangered Species Act must be reconsidered if new information reveals impacts of the proposed project that may affected federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the USFWS, or new species are listed or critical habitat designated that might be affected by your proposed project.
 - b. The permittee is reminded this Department of the Army Permit authorization does not authorize the "take" of a threatened or endangered species as defined under the Endangered Species Act. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the USFWS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS or their World Wide Web page at http://www.fws.gov/r9endspp/endspp/html.
- 29. The permittee must display a copy of the approved Department of the Army permit at the site and ensure all contractors are aware of its terms and conditions.
- 30. As-built drawings, certified by a professional engineer, shall be furnished to this office within 60 days of completion of construction showing the location and configuration, as well as all pertinent dimensions and elevations of each valley fill, sediment pond, and mined through area as well as the office area and erosion protection zones.

30.	The permittee is required to apply for and sec	ure all necessary	permits of	r other approvals	from state
or le	ocal regulatory agencies prior to commencing	construction acti	vity		

Stream Segment ID	Stream Segment Location	Perennial Streams (feet/acres)	Intermittent Streams (feet/acres)	Ephemeral Streams (feet/acres)	Total Stream (feet/acres)	Riparian Zone (Acres)	Rapid Bioassessment Score
			Rest	oration of Temporary Impac	is		
Pond Nos. 2, 2A, 2B, 2C and EPZ- 2AB	Pigeonroost Branch – Segment 1	0	5,287/0.8422	0	5,287/0.8422	6.1	138-141
Office Fill Area	1st unnamed left tributary of Pigeogroost Branch	0	225/0.0181	0	225/0.0181	0.26	138-141
EPZ-2AB	2 nd unnamed left tributary of Pigeonroost Branch	0	100/0.0109	0	100/0.0109	0.11	138-141
EPZ-2AB	3 rd unnamed right tributary of Pigeonroost Branch	0	250/0.0669	0	250/0.0669	0.29	138-141
Office Fill Area	2 nd unnamed tributary of Pigeonroost Branch	0	90/0.0083	0	90/0.0083	0.10	138-141
Pond No. 3	l* unnamed right tributary of Pigeonroost Branch	0	355/0.0931	0	355/0.0931	0.41	132-135
Pond No. 4	Oldhouse Branch - Main Stem	825/0.1887	0	0	825/0.1887	0.09	147-153
		TOTAL			7,132/1.2282	7.36	
			Rehabi	litation and/or Enhancement			
	Spruce Fork	8,722/11.31	0	0	8,772/11.31	10.0	134-143
	Rockhouse Branch	0	2,500/3.27	0	2,500/3.27	2.87	110-120
<u></u> .	Kockhouse Dianen	TOTAL			11,272/14.58	12.87	
				and Intermittent Streams wi	thin Project Boundary		
	T	7 0	22,027/5.1667	21,538/4.7133	43,565/9.8800	50.0	110-120
	Project Area		22,02773.2307		43,565/9.880	50.0	
		TOTAL			ent Stream Channels	/	
				ient Ephemeral and Intermitt	26,625/0.6112	30.6	110-120
-	-	0	11,330/0.2601	15,295/0,3511	26,625/0.6112	30.6	
		TOTAL				93.4	
		CUMULATIVE TO	TAL	· · · · · · · · · · · · · · · · · · ·	88,594/26.2994		



west virginia department of environmental protection

Executive Office 601 57th Street, S.E. Charleston, WV 25304 Talanhana Number: (3)

Telephone Number: (304) 926-0440

Fax Number: (304) 926-0446

Bob Wise, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

December 19, 2005

Ginger Mullins, Chief
Operations and Readiness Division
U. S. Army Corps of Engineers
Huntington District
502 Eighth Street
Huntington, West Virginia 25701-2070

RE: Hobet Mining, Inc.

Spruce No. 1 Mine

Permit No. S-5013-97, IBR No. 2

NPDES Permit No. WV1017021, Modification No. 2

404 Public Notice No. 199800436-3

Dear Ms. Mullins:

The West Virginia Department of Environmental Protection ("DEP") has received the above notice of proposed permitting action by the U. S. Army Corps of Engineers ("COE") relating to an individual permit application for Hobet Mining, Inc. ("Hobet"). The applicant proposes the placement of fill material into waters of the U. S. in conjunction with construction, operation and reclamation of the Spruce No. 1 Surface Mine. This site is located approximately 2 miles northeast of Blair in Logan County, West Virginia.

The Spruce No. 1 Mine, as currently approved under IBR No.2 to S-5013-97, will affect approximately 2,278 surface acres, which includes 1,770 acres of mineral extraction area. Approximately 501 million cubic yards of overburden must be excavated to recover nearly 40.91 million tons of coal reserves from the 6-Block, 5-Block, Stockton, and Coalburg (Upper and Middle) seams, as well as all associated splits thereof. Approximately 110 million cubic yards of the generated overburden will be considered and designed for placement in six valley fills. The construction of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4 would result in the permanent impact 24,023 linear feet of intermittent stream, 7,655 linear feet of ephemeral streams, and 0.12 acre of emergent wetlands. The removal of the bituminous coal reserves underlying stream beds would permanently impact 2,161 linear feet of intermittent stream and 2, 945 linear feet of ephemeral streams. Prior to construction of these valley fills, drainage control would be provided with the

Promoting a healthy environment.

construction of six temporary sediment ponds downstream of the proposed fills and one erosion protection zone. Construction of Sediment Ponds 2, 2A, 2B, 2C, 3, and 4 and erosion protection zone would result in temporary impact of 825 linear feet of perennial streams, 5,642 linear feet of intermittent streams, and 30 linear feet of ephemeral streams. Lastly, the construction of the proposed office and maintenance area would result in the impact of 315 linear feet of the intermittent streams.

To assess and evaluate less degrading alternatives and minimize impacts to waters of the United States, the following analysis, reviews, documents and assessments were considered:

- The 404(b)(1) analysis completed in conjunction with a Buffer Zone Finding for Incidental Boundary Revision (IBR) No. 2 to S-5013-97.
- The Cumulative Hydrologic Impact Assessment (CHIA) for S-5013-97 and IBR No.2
- The Article 3 SMA and issuance of S-5013-97 and updated per IBR No.2 to S-5013-97.
- West Virginia's Water Quality Standards, 46 C.S.R. 1-4, and 60 C.S.R. 5 (antidegradation policy and implementation rules).
- The State 401 Certification application for the Spruce No. 1 Mine (IBR No. 2).
- The Mitigation and Compensation Agreement dated December 12, 2005 for the temporary and permanent stream impacts resulting from the construction of Valley Fill No. 1A in the 1st unnamed right tributary of Right Fork of Seng Camp Creek, 1st unnamed right tributary of 1st unnamed right tributary of Seng Camp Creek; Valley Fill No. 1B in the 2nd unnamed right tributary of Right Fork of Seng Camp Creek; Valley Fill No. 2A in Pigeonroost Branch, 3rd unnamed left tributary of Pigeonroost Branch, 4th unnamed left tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch; Valley Fill No. 2B in the 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed right tributary of 3rd unnamed right tributary of Pigeonroost Branch; Valley Fill No. 3 in the 1st unnamed right tributary of Pigeonroost Branch; and Valley Fill No. 4 in Oldhouse Branch, 1st unnamed left tributary of Oldhouse Branch, 2nd unnamed left tributary of Oldhouse Branch, 1st unnamed left fork of Oldhouse Branch, 2nd unnamed right tributary of Oldhouse Branch, and 1st unnamed right tributary of Oldhouse Branch; Pond No. 2, 2A, 2B, and 2C in Pigeonroost Branch, Pond No. 3 in the 1st unnamed right tributary of Pigeonroost Branch; and Pond No. 4 in Oldhouse Branch; erosion protection zone in Pigeonroost Branch, 2nd unnamed left tributary of Pigeonroost Branch, and 3rd unnamed right tributary of Pigeonroost Branch; office and maintenance area in Pigeonroost Branch; and mine through areas in Pigeonroost Branch, 2nd unnamed left tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 4th unnamed right tributary of Pigeonroost Branch, 3rd unnamed right tributary of Pigeonroost Branch, 1st unnamed left tributary of 3rd right unnamed tributary of Pigeonroost Branch, 1st unnamed right tributary of 3rd right unnamed tributary of Pigeonroost Branch, Oldhouse Branch, and 1st unnamed left fork of Oldhouse Branch, 1st unnamed right fork of Oldhouse Branch.

- The Corp 404 Individual Permit Application for the Spruce No. 1 Mine (IBR No. 2).
- Verbal communications with USACOE personnel.

Based upon review of the information and findings set forth above, State 401 Certification, as required by the Clean Water Act, is granted subject to compliance with the conditions contained in the Mitigation / Compensation Agreement signed December 12, 2005.

This certification may be appealed under Title 47, Series 5A, Section 8 of the Code of State Regulations, State Certification of Activities Requiring Federal License and Permits. The appeal must be submitted within fifteen (15) days of receipt by the COE and must be made in writing and set forth the action complained of and the grounds upon which the appeal is based. It should be directed to: Director, Division of Mining and Reclamation, 601 57th Street SE, Charleston, West Virginia 25304-2345, Attention: Randy C. Huffman.

Sincerely,

Randy C. Huffman

Director

RCH/wcb

cc: Hobet Mining, Inc.
7 Players Club Drive
Charleston, WV 25311
Attn: John McDaniel
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service
WVDNR Wildlife, Elkins
Bob Fala, DEP HQ
William Borth, DEP HQ
Kathy Lucas, DEP HQ
Logan DEP Regional Office

STATE 401 CERTIFICATION RATIONALE PAGE

Peı	mit: 401 Certification	Company Name: Hobet Mining, Inc.
Fa	cility Name: Spruce No. 1 Mine	County: Logan
SM	IA/Permit No.: S-5013-97, IBR No. 2	NPDES Permit No.: WV1017021 / Mod No.2
	New or expanded discharge?	X Yes No – go to item #4
2.	Facility eligible for General Permit?	X No Yes – go to item #4
2	Posis for certification:	

A. Determine tier and uses of each receiving stream.

STREAM	USES	TIER
1st unnamed right tributary of Right Fork of Seng Camp Creek	A,B,C,D	II
1st unnamed right tributary of 1st right unnamed tributary of	A,B,C,D	П
Right Fork of Seng Camp Creek 2 nd unnamed right tributary of Right Fork of Seng Camp	A,B,C,D	II
Creek	A,B,C,D	II
Pigeonroost Branch	A,B,C,D	II
1st unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
2 nd unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
3rd unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
4th unnamed left tributary of Pigeonroost Branch	A,B,C,D	II
4 th unnamed right tributary of Pigeonroost Branch 1 st unnamed left tributary of 4 th unnamed right tributary of	A,B,C,D	п
Pigeonroost Branch	A,B,C,D	† II
3 rd unnamed right tributary of Pigeonroost Branch 1 st unnamed left tributary of 3 rd right unnamed tributary of Pigeonroost Branch	A,B,C,D	п
1 st unnamed right tributary of 3 rd right unnamed tributary of Pigeonroost Branch	A,B,C,D	п
2 nd unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
1st unnamed right tributary of Pigeonroost Branch	A,B,C,D	II
Oldhouse Branch	A,B,C,D	II
1st unnamed left tributary of Oldhouse Branch	A,B,C,D	II
2 nd unnamed left tributary of Oldhouse Branch	A,B,C,D	II
1st unnamed left fork of Oldhouse Branch	A,B,C,D	II
1st unnamed right fork of Oldhouse Branch	A,B,C,D	II
2 nd unnamed right tributary of Oldhouse Branch	A,B,C,D	II
1st unnamed right tributary of Oldhouse Branch	A,B,C,D	II

Anti-degradation Review: This State 401 Certification request is for an Individual U.S. Army Corps of Engineers 404 Permit involving placement of material in waters of the United States in conjunction with the activity associated with the Spruce No. 1 Mine. The proposed project is located in Right Fork of Seng Camp Creek, unnamed tributaries of Pigeonroost Branch, Pigeonroost Branch, unnamed tributaries of Oldhouse Branch, and Oldhouse Branch of Spruce Fork of Coal River of the Kanawha River approximately 2 miles northeast of Blair in Logan County in West Virginia.

The original design proposed for the operation called for the construction of five valley fills, five sediment ponds, and mine through areas – all impacting an approximate 57,755 linear feet (12.84 acres) of waters of the U.S. and one 0.12 acre emergent wetlands with a total disturbance of 2,914 acres of land to recover 51.53 millions tons of coal reserves. The applicant has since revised the configuration of their proposed mine plan in accordance with the requirements of the WVDEP Final Approximate Original Contour (AOC) and thereby reduced proposed impacts to waters of the U.S. by 13,809 linear feet (3.89 acres), reduced surface disturbances by 636 acres, and reduced coal extraction by 10.62 millions tons. As a result of the reconfiguration for the revised permit, the project would have a lower proportion of permanent impacts to waters of the U.S. within the excess overburden storage areas as opposed to within the mineral removal areas. The applicant also specifically revised the permit configuration to avoid impacts to White Oak Branch, a presumed Tier 2.5 stream.

The current approved design will result in the permanent impact to 24,023 linear feet of intermittent streams and 7,655 linear feet of ephemeral streams and one 0.12 acre emergent wetland. As proposed in the current plan, the construction of sediment control structures and an erosion protection zone (EPZ) will result in the temporary impact of 825 linear feet of perennial streams, 5,642 linear feet of intermittent streams, and 30 linear feet of ephemeral streams. Lastly, the construction of the proposed office and maintenance area would result in the impact of 315 linear feet of the intermittent streams.

The use of smaller equipment as opposed to the dragline has effected a reduction in temporary land disturbance impacts.

A Buffer Zone Finding was prepared incorporating the 404(b)(1) analysis to evaluate less degrading alternatives and minimize impacts to the Waters of the United States and assure compliance with State Water Quality Standards.

A Mitigation and Compensation Agreement was signed on December 12, 2005 for the stream impact resulting from the mine through areas (other than within the area of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4) associated with the proposed Spruce No. 1 Mine. This agreement also addressed the stream impacts resulting from the construction of Valley Fill Nos. 1A, 1B, 2A, 2B, 3, and 4; Pond Nos. 2, 2A, 2B, 2C, 3, and 4; erosion protection zone; and office and maintenance area.

The "Demonstration of No Practical Alternatives" from the State 401 Certification application, evaluated several alternatives, including: "No Action Alternative; Alternative Not Requiring Construction of the Spruce No. 1 Mine; Alternatives for Construction and Operation of the Spruce No. 1 Mine including: Mine Layout and Sequencing Alternatives; Mining Operation

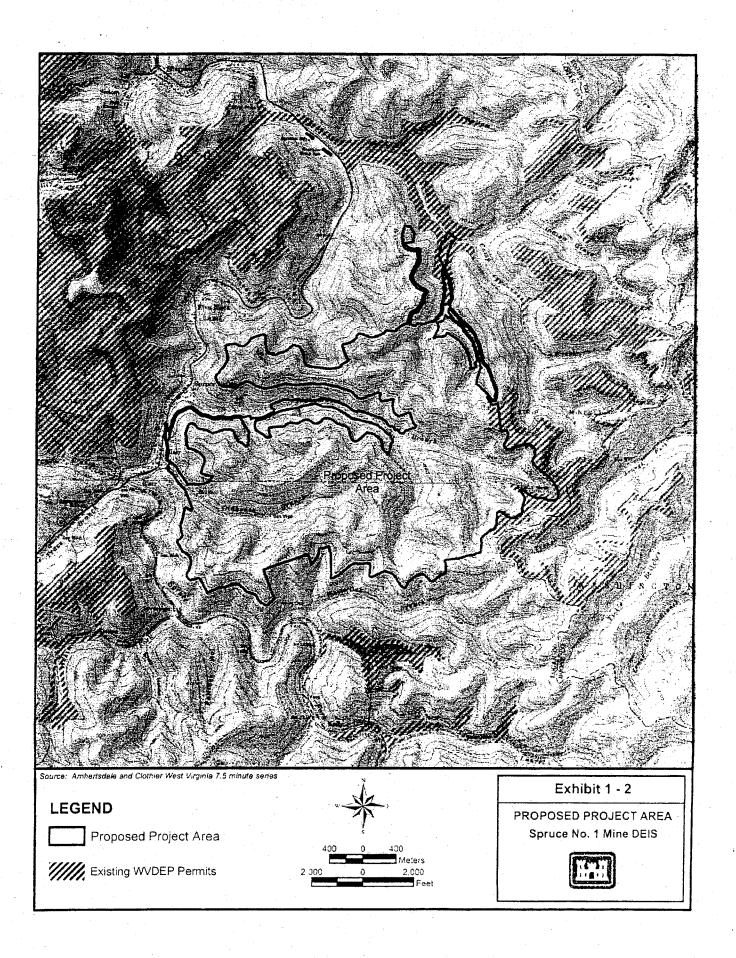
Alternatives; Off-Site Disposal Alternatives; Hauling Fill Off-Site Alternative; Fill Location Alternative; Valley Fill Locations Alternative; and the "Preferred Alternative".

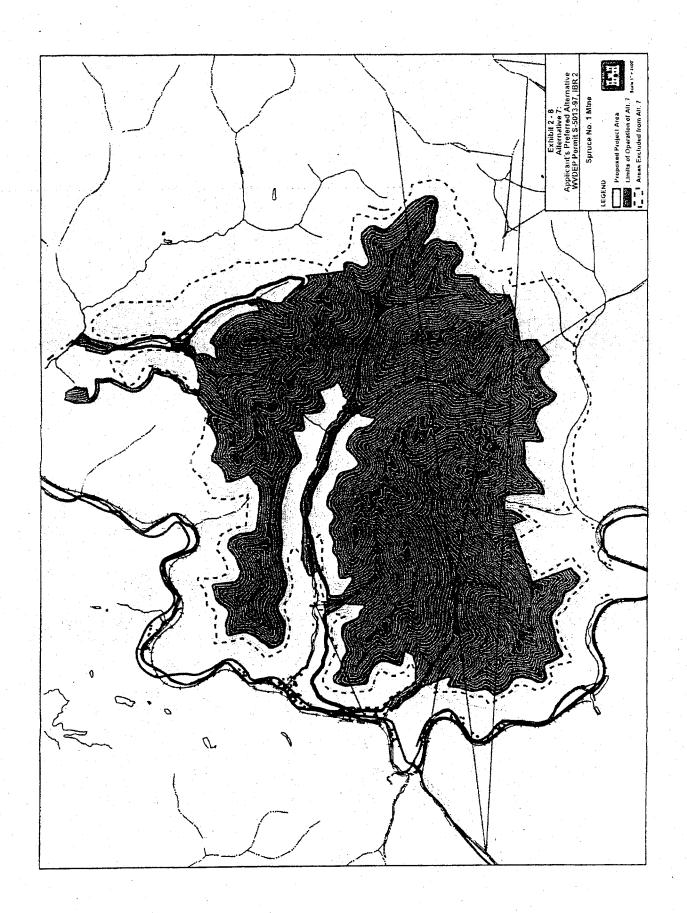
The Cumulative Hydrologic Impact Assessment (CHIA) for S-5013-97, IBR No. 2 indicated that the cumulative and probable hydrological impacts from the Spruce No. 1 Mine would not cause hydrologic material damage as defined by the state water quality limits for warm water fisheries and that local use of surface and ground waters will be maintained and that Spruce No. 1 Mine would not adversely impact the hydrologic balance.

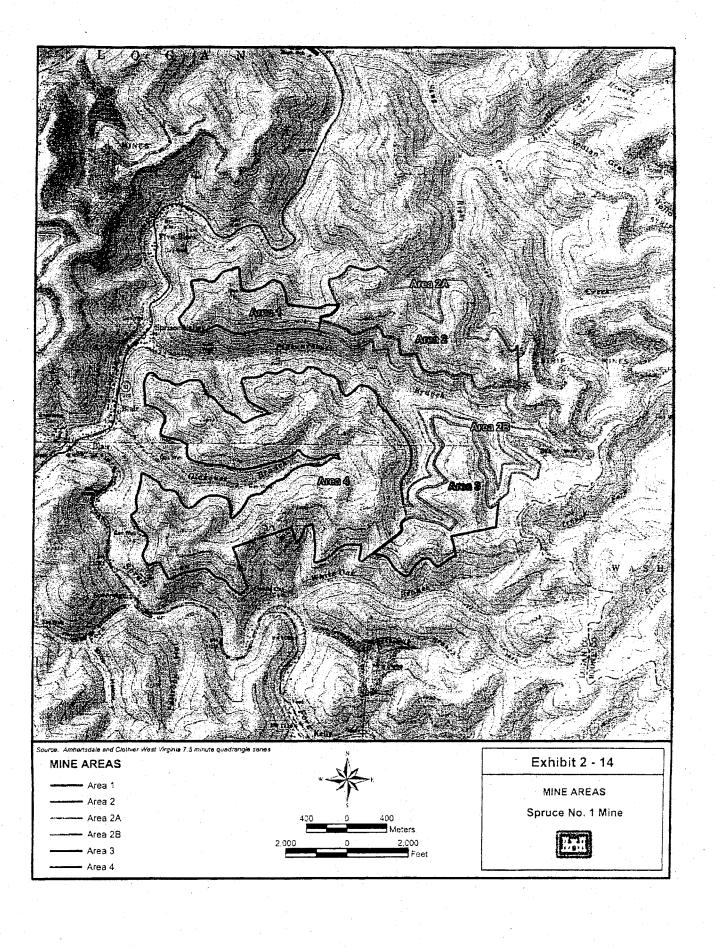
Information supplied by Hobet in the Community Impact Statement for the Spruce No. 1 Mine stated that an estimated 218 employees would be hired at the mine site during full operation, of which 95% will be residents of West Virginia. The anticipated life of the mine is 15 years. During full operation: the annual coal production is estimated at 2,800,000 tons, the mine payroll is estimated at \$11,850,000, the estimated annual property tax payments will be \$1,074,000 and the estimated annual severance tax payment will be \$5,479,546.

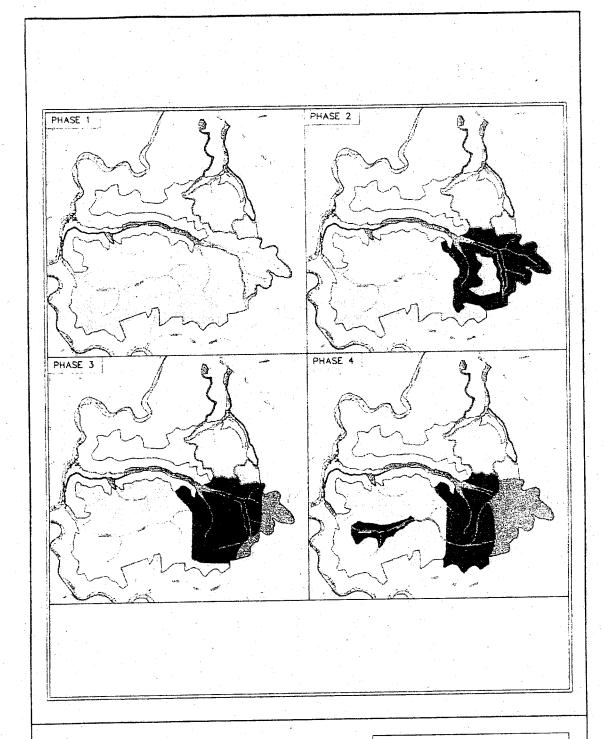
4. Special Conditions or monitoring requirements:

Special Conditions: In Addition to the signed Mitigation and Compensation Agreement dated December 12, 2005 between the State and Hobet Mining, Inc., the USACE will also impose special conditions and mitigation on all waters under their jurisdiction. This Mitigation Agreement will be solely between the Corp and Hobet Mining, Inc.









LEGEND



DISTURBED AREA UNDISTURBED AREA ANCILLARY / EXEMPT AREA REGRADED AREA

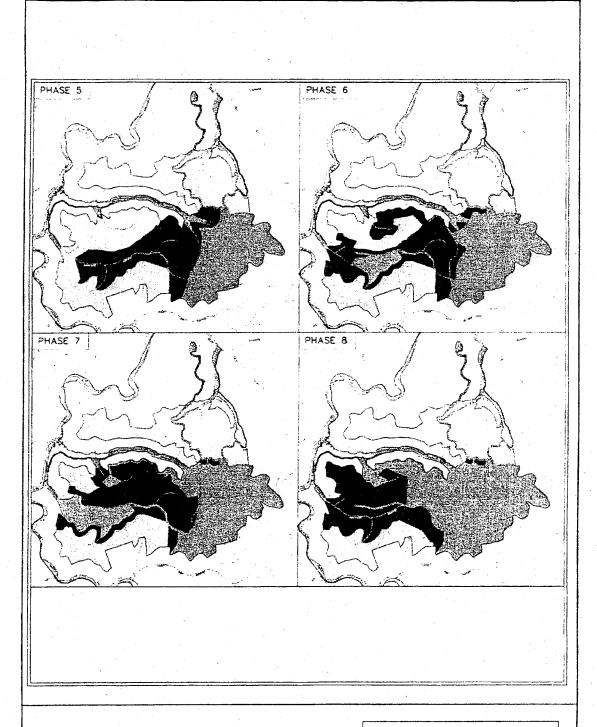


EXHIBIT 2 - 15

MINING AND RECLAMATION PHASES PHASE 1 THROUGH PHASE 4

Spruce No. 1 Mine





LEGEND

DISTURBED AREA UNDISTURBED AREA ANCILLARY/EXEMPT AREA



REGRADED AREA

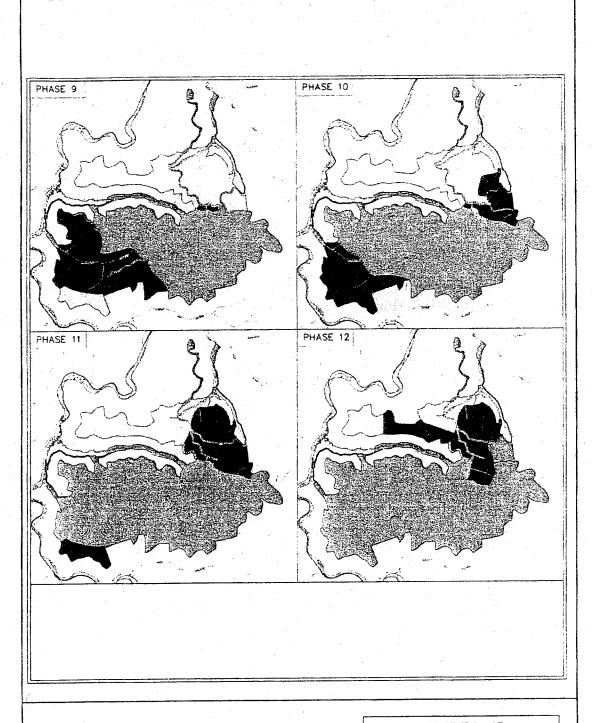


EXHIBIT 2 - 16

MINING AND RECLAMATION PHASES PHASE 5 THROUGH PHASE 8

Spruce No. 1 Mine





LEGEND



DISTURBED AREA

UNDISTURBED AREA

ANCILLARY / EXEMPT AREA



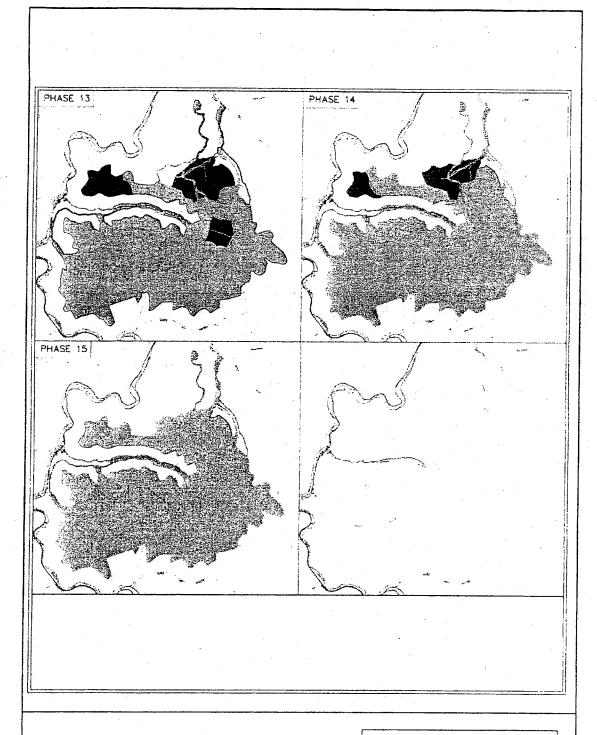


EXHIBIT 2 - 17

MINING AND RECLAMATION PHASES PHASE 9 THROUGH PHASE 12

Spruce No. 1 Mine.









DISTURBED AREA UNDISTURBED AREA ANCILLARY / EXEMPT AREA



REGRADED AREA

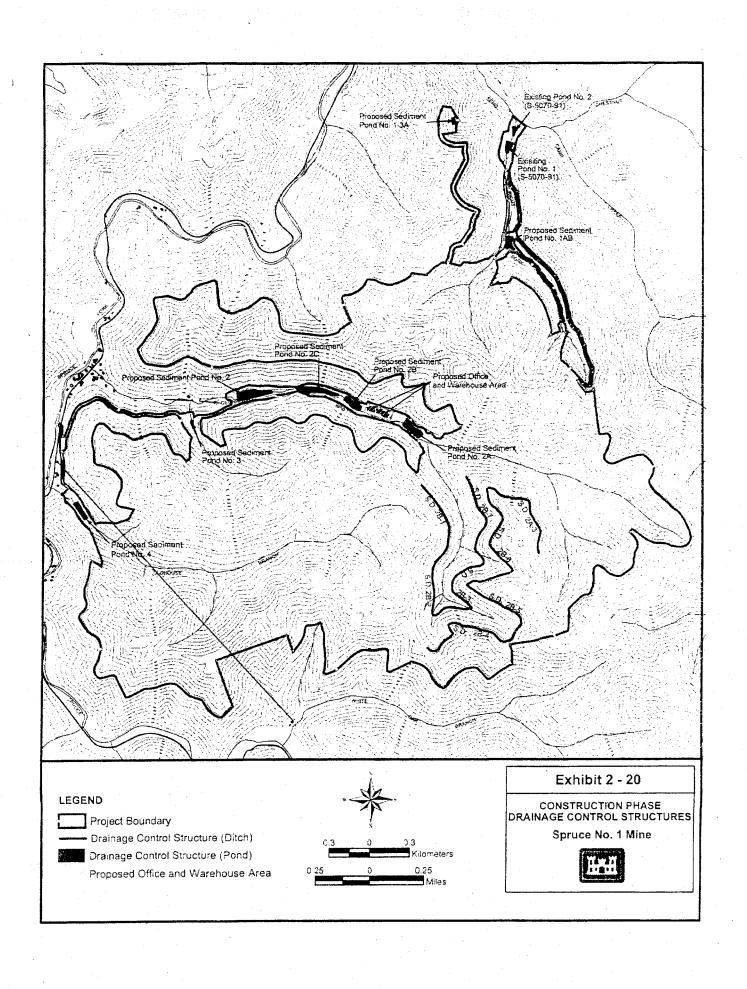


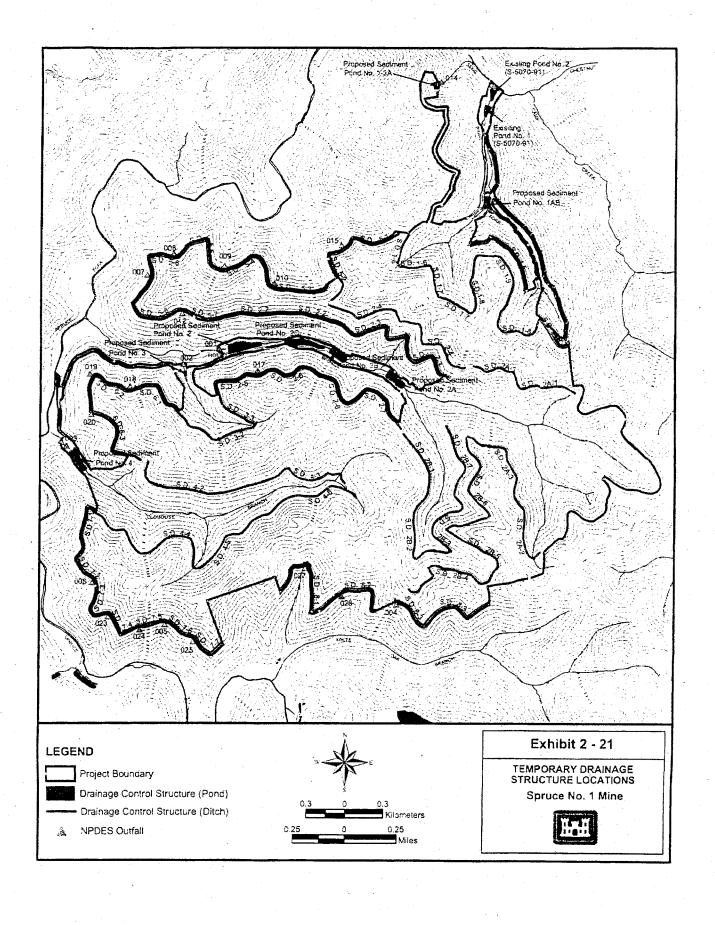
EXHIBIT 2 - 18

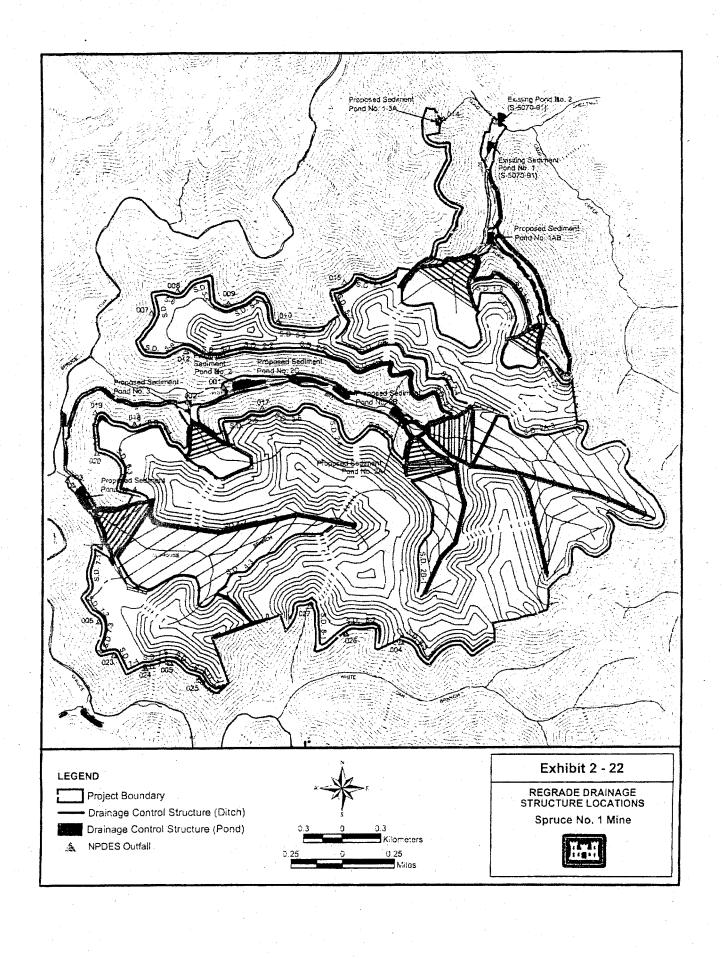
MINING AND RECLAMATION PHASES PHASE 13 THROUGH PHASE 15

Spruce No. 1 Mine











WEST VIRGINIA DIVISION OF CULTURE & HISTORY

The Cultural Center 1900 Kanawha Blvd., E. Charleston, WV 25305-0300

Phone 304.558.0220 Fax 304.558.2779 TDD 304.558.3562 www.wvculture.org December 14, 2006

Ms. Teresa Spagna U.S. Army Corps of Engineers 502 Eighth Street Huntington, WV 25701

RE: Mingo-Logan Coal Comapny

Spruce No. 1 Mine (S-5013-97, IBR No. 2)

Compensatory Mitigation Plan

FR#: 97-595-LG-5

Dear Ms. Spagna:

We have reviewed the above referenced project to determine its effects to cultural resources. As required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

It is our understanding that this project proposes both on- and off-site mitigation activities associated with the above referenced surface mine near Spruce Valley, Logan County, West Virginia.

On-Site Mitigation Activities:

According to the project application, the proposed on-site mitigation activities will be conducted within the area that was previously surveyed for cultural resources in 1996. The resulting technical report, Phase I Archaeological Survey for the Proposed Pigeonroost Surface Mine Near Blair, Logan County, West Virginia, identified 15 previously unrecorded archaeological sites, three cemeteries and one architectural resource within the project area. While no cultural resources considered to be eligible for the National Register of Historic Places were present within the project area, archaeological site 46Lg123, a petroglyph, and the cemeteries were to be avoided by the mining activities. It is our understanding that the mine was redesigned to avoid these resources. We ask that they continue to be avoided during mitigation of wetland resources.

Off-Site Mitigation Activities:

It is our understanding that off-site mitigation activities are planned along Rockhouse Creek, near Mifflin, and Along Spruce Fork between the town of Five Block and Seng Camp/Daniel Hollow. Our records indicate that the landforms within Rockhouse Creek have been previously mined and reclaimed, thus it is unlikely that intact archaeological deposits are present. No further work is requested for proposed activities along Rockhouse Creek.

The project application also indicates that off-site mitigation activities are planned along the floodplain of Spruce Fork. Our records indicate that four known archaeological sites, 46LG198, 46LG23, 46LG114 and 46LG130, are located on similar terrain just outside of the project boundaries. Sites 46LG198, 46LG23 and 46LG114 are prehistoric in nature,

Ms. Teresa Spagna FR# 97-595-LG-5 December 14, 2006 Page 2

while 46LG130 is a historic period domestic site. Site 46Lg198 was determined to be eligible for inclusion in the National Register of Historic Places, and data recovery excavations were recently completed. Based upon this information, it is our opinion that the proposed mitigation area on Spruce Fork is highly likely to contain intact archaeological resources. We cannot comment on this project's effects to cultural resources within the proposed project area located along Spruce Fork until the results of a Phase I archaeological survey are submitted for our review. Please be aware that the survey may need to incorporate methods for investigating deeply buried soils.

We appreciate the opportunity to be of service. If you have any questions regarding our comments or the Section 106 process, please do not hesitate to contact Jeff Davis, Survey Archaeologist, or Lora A. Lamarre, Senior Archaeologist at (304) 558-0240.

Sincerely.

Randall Reid-Smith

Commissioner

RRS/LAL/JBD



west virginia department of environmental protection

Division of Mining and Reclamation 601 57th Street, SE Charleston, WV 25304-2345 Phone: 304-926-0490

Phone: 304-926-0490 Fax: 304-926-0456 Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary www.wvdep.org

August 7, 2007

MINGO LOGAN COAL COMPANY 1000 MINGO LOGAN AVE WHARNCLIFFE, WV 25651

Gentlemen:

Enclosed is your WVNPDES Permit No. WV1017021 for your Surface Mine located near Blair - Logan County in Logan County, West Virginia.

We suggest that this permit or a copy of it be kept in the office nearest the discharge point.

If you have any questions, please contact me at (304) 792-7250 or by mail at:

Department of Environmental Protection 1101 George Kostas Drive Logan, WV 25601 Attention: Tim Justice

Sincerely,

Tim Justice Permit Writer

cc: Environmental Protection Agency
Environmental Inspector
DEP Regional Office File
Headquarters NPDES File



west virginia department of environmental protection

Division of Water and Waste Management 601 57th Street, SE

Joe Manchin III, Governor Stephanie R. Timmermeyer, Cabinet Secretary

Charleston, WV 25304-2345

www.wvdep.org

Phone: 304-926-0495 Fax: 304-926-0457

> **WEST VIRGINIA.** NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.:

WV1017021

ISSUE DATE: August 7, 2007

ASSOCIATED PERMITS: S501397

EXPIRE DATE:

January 11, 2012

SUBJECT: Surface Mine

SUPERSEDES/

WV1017021 / 5/12/2004

EFFECTIVE DATE:

HEALTH CERTIFICATE:

LOCATION:

Blair - Logan County

Logan

Group B

Coal River

(City)

(County)

(Hydrologic)

(Drainage Basin)

TO WHOM IT MAY CONCERN:

This is to certify that: MINGO LOGAN COAL COMPANY

1000 MINGO LOGAN AVE WHARNCLIFFE, WV 25651

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:

Operate and maintain the Spruce No. 1 Surface Mine in the No. 6 Block, No. 5 Block, Upper, Middle and Lower Stockton, Upper, Middle and Lower Coalburg, Buffalo A, Buffalo B, Winifrede, Chilton seams of coal and all associated splits and to monitor outlet 028 at (adjacent NPDES Permit WV1013289 outlet 007) and to discharge treated and storm water into unnamed tributaries of/and into the Right Fork of Seng Camp Branch, Pigeonroost Branch, White Oak Branch, Oldhouse Branch of/and into Spruce Fork, alll of the Little Coal River of the Coal River.

This permit is subject to the following terms and conditions:

- -The effluent limitations, monitoring requirements and other conditions set forth in Section A, B, C and D.
- -- See Section D Item 5 for Special Conditions.

Director

Effectiv€

To

INTERIM

Permit No. WV1017021

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:
- 2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet Effluent Latitude Elevation EFFLUENT Begins Ends Quan/ DISCHARGE LIMITATIONS	MONITORING REQUIREMENTS
Alimber Time Localitate In Fact CHARACTERISTICS	
Number Type Longitude In Feet CHARACTERISTICS Conc Min. Daily Avg. Monthly Max. Daily Ur	ts Measurement Freq. Sample Type

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan/	1	DISCHARGE	LIMITATIONS	<u> </u>	MONITORING R	EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Сопс	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
01	L	37°52'59" 81°48'45"	1060	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				pH	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.25	0.43	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	· · · · · · · · · · · · · · · · · · ·	Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
02	L	37°52'54" 81°48'59"	1075	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
		. :		Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.25	0.43	MG/L	Semi-monthly	Grab
		,	·	Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											

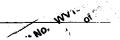
Permit No. WV1017021 Page 3 of 22

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet Number	Effluent Type	Latitude Longitude	Elevation In Feet	EFFLUENT CHARACTERISTICS	Begins	Ends	Quan/			LIMITATIONS	3	MONITORING F	EQUIREMENTS
	1						Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
03	L	37°52'54" 81°49'35"	1000	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
•				рH	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
			,	Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
		-		Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
		e.		Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.26	0.50	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											· .
04	L	37°51'57" 81°41'52"	1750	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab
	-			Selenium, Total Recoverable	08/07/2007		Conc	Report Only	4.70	8.20	UG/L	Semi-monthly	Grab
•		*		Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	3.47	MG/L	Semi-monthly	Grab
٠					08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
	·		.,	Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											· · · · · · · · · · · · · · · · · · ·
													, , , , , , , , , , , , , , , , , , , ,



DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:
- 2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

				L	Dogina	Ends	Quan/		DISCHARGE	LIMITATIONS		MONITO.	
Outlet	Effluent	Latitude		EFFLUENT	Begins	Elius	Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	
lumber	Type	Longitude	In Feet	CHARACTERISTICS	20107/2007			Report Only		Report Only	GPM	Semi-monthly	•
5	L	37°51'49"	1450	Flow	08/07/2007		Quan	teport only				O	 Gic
,	• • •	81°49'04"		-11	08/07/2007	,	Conc	6.00	N/A	9.00	Std Units	Semi-monthly	OIL.
				рН	00/0//2001		l		<u> </u>		MG/L	Semi-monthly	Grab
			i	Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Serm-monuny	_,
	!			Total Occiponed Comme						0.50	ML/L*	See Section A of Permit	Grab
	1		1	Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50			
				<u>^</u>			0	Banari Only	Report Only	Report Only	UG/L	Semi-monthly	Grab
				Selenium, Total	08/07/2007		Conc	Report Only	Report Crity				
	}		ŀ	Recoverable			Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	teport only					Grab
	1				08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Giab
				Manganese, Total	08/0/12001		000				1100	Semi-monthly	Grab
	1			Aluminum, Total (as Al)	08/07/2007	· · · · · · · · · · · · · · · · · · ·	Conc	Report Only	0.43	0.75	MG/L	Seint-montally	
	1	'		Aluminum, Total (as Al)	00.02001	•					MG/L	Semi-monthly	Grab
	1			Aluminum, Dissolved (As	08/07/2007		Conc	Report Only	Report Only	Report Only	WOL		
				AL)						 			
		(See 3, 4)	+							·			
		(0000)					Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimate
006	† L	37°52'00"		Flow	08/07/2007		Quan	Report Only	topon only				Grab
		81°49'26"			08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Giab
				рН	00/0/12007						140"	Semi-monthly	Grab
			1	Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Senti-monthly	
				Total Suspended Condo	55.5						ML/L*	See Section A of Permit	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	(4117)		
	.			_					v Report Only	Report Only	MG/L	Semi-monthly	Grab
		1		Selenium, Total	08/07/2007		Cond	Report Only	y Report Only	Report O,			
				Recoverable				Report Onl	v. 1.42	2.46	MG/L	Semi-monthly	Grab
į.			}	Iron, Total (As Fe)	08/07/2007		Cond	c Report On	y 1.42		<u> </u>		
					00/07/0007		Con	c Report Onl	v 2.00	4.00	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		3311		<u> </u>			Comi monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	 	Con	c Report On	y 0.43	0.75	MG/L	Semi-monthly	Glab
	- [Aluminum, rotal (as Al)	00,07,2007						v MG/L	Semi-monthly	Grab
1				Aluminum, Dissolved (A	s 08/07/2007		Con	c Report On	ly Report Only	Report Only	y NIG/L	John Honory	
			1	AL)									
		(See 3,	1)									1	
1		1000 0,	"										
1	1				- 1	1				ļ	ľ		

Permit No. WV1017021

Page 5 of 22

A. <u>DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS</u>

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan/			LIMITATIONS			EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
07	L	37°53'17" 81°49'10"	1420	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
			-	pН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
			•	Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007	*	Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Сопс	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
;		(See 3, 4)											
08	L	37°53'24" 81°49'02"	1430	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
	1			pΗ	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
		:		Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
			:	Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
		· ·		Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
			. *	Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
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A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan/		DISCHARGE	LIMITATIONS		MONITORING R	EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
09	L	37°53'20" 81°48'48"	1425	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		0, 4040		рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007	-	Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
10	L	37°53'16" 81°48'32"	1425	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
*				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
		*		Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)	*										

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A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

Outlet Number	Effluent Type	Latitude Longitude	Elevation In Feet	EFFLUENT CHARACTERISTICS	Begins	Ends	Quan/			LIMITATIONS	3	MONITORING F	EQUIREMENTS
							Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
12	L	37°53'09" 81°48'59"	1410	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
			•	рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
-				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.25	0.43	MG/L	Semi-monthly	Grab
	·			Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007	· ·	Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
4	L	37°54'27" 81°47'54"	1606	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
٠				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
		N. C.		Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
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A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:
- 2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Quan/		DISMARGE	LIMITATIONS		MONITORING R	EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS		Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
15	L	37°52'28" 81°48'11"	1460	Flow	08/07/2007	Juan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007	Conc	6.00	NA	9.00	Std Units	Semi-monthly	Grab
			,	Total Suspended Solids	08/07/2007	Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007	Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007	Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				iron, Total (As Fe)	08/07/2007	Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007	 Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
•				Aluminum, Dissolved (As AL)	08/07/2007	 Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)										
17	L	37°52'54" 81°48'36"	1400	Flow	08/07/2007	Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				pH	08/07/2007	 Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
V .				Total Suspended Solids	08/07/2007	Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007	Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007	Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007	Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007	Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007	Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)	-									

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A. <u>DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS</u>

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan		DISCHARGE	LIMITATIONS	3	MONITORING R	EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
018	L	37°52'49" 81°49'15"	1400	Flow	08/07/2007	•	Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		•		pΗ	08/07/2007		Conc	6.00	NA	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
	,			Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007	-	Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
019	L	37°52'52" 81°49'28"	1425	Flow	08/07/2007	•	Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		-		pH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007	. •	Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
		•		Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
i		*		Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
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A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

	l1	9 - 416 d c	Flourties	EFFLÜENT	Begins	Ends	Quan/		DISCHARGE	LIMITATIONS		MONITORING RI	
Outlet Number	Effluent Type	Latitude Longitude	In Feet	CHARACTERISTICS) Dog		Conc	Min. Daily	Avg. Monthly		Units	Measurement Freq.	Sample Type
)20	L	37°52'42" 81°49'27"	1420	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		01 4327		рH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Recoverable Iron, Total (As Fe)	08/07/2007		Conc	Report Only	0.26	0.45	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	· ,	Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
-		(See 3, 4)		, AL)									
21	L	37°52'15" 81°49'30"	1450	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		01 49 30		pH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	MI/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007	1	Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Cond	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
	-	(See 3, 4)	,										
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A. <u>DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS</u>

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:
- 2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation		Begins	Ends	Quan/		DISCHARGE	LIMITATIONS	\$	MONITORING R	EQUIREMENTS
Number	Type	Longitude	In Feet	CHARACTERISTICS		100	Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
022	Ļ	37°52'09" 81°49'30"	1450	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
			`	Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
			·	Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
		,		Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)									·		
023	L	37°51'51" 81°49'23"	1500	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
*.				рH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007	<u> </u>	Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
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A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- 1. The permittee is authorized to discharge from Outlet Number(s) listed below:
- 2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan/		DISCHARGE	LIMITATIONS		MONITORING R	
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
24	L	37°51'48" 81°49'12"	1460	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
al.			1	Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
•		(See 3, 4)						·					
25	L	37°51'45" 81°48'55"	1460	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
• .				Settleable Solids	08/07/2007		Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
	 	(See 3, 4)	1										
										1			

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A. <u>DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS</u>

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. EFFLUENT LIMITATIONS AND MONITORING FREQUENCY: Outlets should be limited and monitored by the permittee as specified below:

Outlet Number	Effluent			EFFLUENT	Begins	Ends	Quan/			LIMITATIONS		MONITORING R	EQUIREMENTS
	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
026	L	37°52'00" 81°48'08"	1510	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рH	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
• .				Settleable Solids	08/07/2007	2	Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
•				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
				Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
	2			Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											
27	L	37°52'04" 81°48'21"	1475	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
				рН	08/07/2007		Conc	6.00	N/A	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
				Settleable Solids	08/07/2007	-	Conc	Report Only	Report Only	0.50	ML/L*	See Section A of Permit	Grab
			·	Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
				Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab
		·		Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
					08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											· · · · · · · · · · · · · · · · · · ·

Permit No. WV1017021
Page 14 of 22

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge from Outlet Number(s) listed below:

2. <u>EFFLUENT LIMITATIONS AND MONITORING FREQUENCY:</u> Outlets should be limited and monitored by the permittee as specified below:

Outlet	Effluent	Latitude	Elevation	EFFLUENT	Begins	Ends	Quan/	1 1	DISCHARGE	LIMITATIONS	3	MONITORING R	EQUIREMENTS
Number	Туре	Longitude	In Feet	CHARACTERISTICS			Conc	Min. Daily	Avg. Monthly	Max. Daily	Units	Measurement Freq.	Sample Type
028	L	37°54'06" 81°47'24"	1000	Flow	08/07/2007		Quan	Report Only	Report Only	Report Only	GPM	Semi-monthly	Estimated
		£.		рН	08/07/2007		Conc	6.00	Report Only	9.00	Std Units	Semi-monthly	Grab
				Total Suspended Solids	08/07/2007		Conc	Report Only	35.00	70.00	MG/L	Semi-monthly	Grab
			Settleable Solids	08/07/2007		Conc	N/A	N/A	0.50	ML/L*	See Section A of Permit	Grab	
				Selenium, Total Recoverable	08/07/2007		Conc	Report Only	Report Only	Report Only	UG/L	Semi-monthly	Grab
			Iron, Total (As Fe)	08/07/2007		Conc	Report Only	1.42	2.46	MG/L	Semi-monthly	Grab	
	7.	:		Manganese, Total	08/07/2007		Conc	Report Only	2.00	4.00	MG/L	Semi-monthly	Grab
				Aluminum, Total (as Al)	08/07/2007		Conc	Report Only	0.43	0.75	MG/L	Semi-monthly	Grab
				Aluminum, Dissolved (As AL)	08/07/2007		Conc	Report Only	Report Only	Report Only	MG/L	Semi-monthly	Grab
		(See 3, 4)											

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

- * Instantaneous maximum limitation not to be exceeded at any time.
- COMPLIANCE POINT: Samples taken for compliance with the above monitoring requirements shall be taken at the following locations: Outlet sites
- 4. ALTERNATE EFFLUENT LIMITATIONS: If alternate effluent limits are chosen, the following monitoring scheme applies:
 - (a) Table I Alternate Storm Limitations applies to any discharge or increase in the volume of a discharge caused by precipitation within any 24-hour period.
 - (b) Analyze the required parameters, which are determined by effluent type (listed in A.1.) and rainfall event, listed in Table I Alternate Storm Limitations.
 - (c) The permittee shall have the burden of proof that the discharge or increase in discharge was caused by the applicable rainfall event. This shall be verified by the use of a rainfall gauge located within three miles of the discharge point and last emptied no more than twenty-four hours prior to the time the sample was taken. Automated rain gauges may also be utilized. The sampling date and amount of rainfall measured by the gauge shall be reported on the Discharge Monitoring Report(DMR).
- 5. The rainfall gauge shall be located within three miles of the discharge point and last emptied not more than 24 hours prior to the time the sample was taken. Automated rain gauges may also be utilized. The sampling date and amount of rainfall measured for the 24-hour period of the sample being collected shall be reported on the Discharge Monitoring Report(DMR) for each DMR reported.
- 6. SUBMISSION OF DISCHARGE MONITORING REPORTS (DMRs):
 - (a) Permittee shall submit each quarter, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating the values of the constituents listed in Part A, to be in the discharge measured at the specific compliance points. All analyses must be determined by methods required in 40 CFR Part 136.
 - (b) The required quarterly reports shall be postmarked no later than twenty (20) days following the end of the reporting period and shall be sent to:

West Virginia Department of Environmental Protection Division of Mining & Reclamation / HPU / NPDES Section 601 57th Street SE Charleston, West Virginia 25304

- (c) Enter reported average and maximum values under Quantity and Concentration in the units specified for each parameter, as appropriate.
- (d) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled N.E. (i.e. number exceeding).
- (e) Specify frequency of analysis of each parameter as number of analyses/specified period (e.g. 3/month is equivalent to 3 analyses performed every calendar month). If continuous enter Cont. The frequency listed on format is the minimum required.
- (f) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic means unless otherwise specified in the permit.
- 7. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee

may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the results as less than the average calculation.

8. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to comfirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of

the

most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

TABLE 1

	ALTERNATE ST	ORM LIMIT	ENOITA:	
ENT TYPES	DRY WEATHER	DCP*	1 YEAR - 24 HOUR	2 YEAR 24 HOUR

EFFLUENT TYPES	DRY WEATHER	DCP*	1 YEAR -	2 YEAR - 24 HOUR	10 YEAR 24 HOUR
SPELOENI TIPES	DRI WEATHER	DCP-	24 HOOR	24 HOUR	24 HOUR
CID OR FERRUGINOUS CATEGORIES					
a. Discharges from underground workings of underground mines not commingled	TSS pH Iron Manganese Al		(NO ALTERI	NATE LIMITAT	(ONS)
workings of underground mines commingled	TSS pH]	Iron Flow	Manganese A	luminum	Flow pH Aluminum
c. Controlled surface mine drainage(except steep slope and mountaintop removal)	TSS pH 1	Iron Flow	Manganese A	luminum	Flow pH Aluminum
Non-controlled surface mine drainage(except steep slope and mountaintop removal)	TSS Iron Flow pH Manganese Aluminum		H Iron Flow se Aluminum	SS** pH Flow Aluminum	Flow pH Aluminum
e. Discharges from coal refuse disposal areas	TSS pH Iron Manganese Alu		Flow SS** Aluminum	рH	Flow pH Aluminum
Discharges from steep slope and mountaintop removal areas	TSS Iron Flow pH Manganese Aluminum	Flow	SS** pH 1	Aluminum	Flow pH Aluminum
Discharges from preparation plants and preparation plant associated areas (excluding coal refuse piles)		Flow	SS** pH A	Aluminum	Flow pH Aluminum
n. Discharges from reclamation areas	Flow	v SS**	pH Alur	ninum	Flow pH Aluminum
LKALINE CATEGORY					
Discharges from underground workings of underground mines not commingled	TSS ph Iro Aluminum Mr	on Flow	(NO ALTERNA:	re Limitation	IS)
. Alkaline Mine Discharges	TSS Iron Flow pH Mn Aluminum	:	SS** pH	Aluminum	Flow pH Aluminum
. Reclamation areas	Flow	i SS**	рн		Flow pH
ATER QUALITY BASED LIMITS					
. Water quality based effluent limits	TSS Iron Flow pH Mn Al	ss** p	H Iron Flow	Manganese	Aluminum
. Bathhouse & Sewage	UBOD BODS	TKN DO	(NO ALTERNAT	CE LIMITATION	is)

DCP* -- Discharge or increase in the volume of a discharge caused by precipitation within any 24 hour period
SS** -- Settleable Solids Mn -- Manganese Al -- Aluminum

County: Logan

1-Year 02.40

2-Year 02.74

10-Year 03.98

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the following interim requirements with the discharge limitations specified in this permit in accordance with the following schedule:

Interim Requirement

Completion Date

Effective date of this permit

2. Reports of compliance or non-compliance with, and progress reports on the interim and final requirements contained in the above compliance schedule shall be submitted no later than fourteen (14) days following each schedule date.

N/A

- C. TERMS AND CONDITIONS INCORPORATED BY REFERENCE TO THE WV NPDES REGULATIONS FOR COAL MINING AND FACILITIES, TITLE 47, SERIES 30.
 - 5.1 Duty to Comply, Penalties
 - 5.2 Duty to Reapply
 - 5.3 Duty to Halt or Reduce Activity
 - 5.4 Duty to Mitigate
 - 5.5 Proper Operation and Maintenance
 - 5.6 Permit Actions
 - 5.7 Transfer
 - 5.8 Property Rights
 - 5.9 Duty to Provide Information
 - 5.10 Inspection and Entry
 - 5.11 Monitoring and Records
 - 5.12 Signatory Requirements
 - 5.13 Reporting Requirements
 - 5.14 Bypass
 - 5.15 Upset
 - 5.16 Reopener Clause
 - 5.17 Removed Substances
 - 5.18 New Sources (if applicable)
 - 5.19 Definitions

D. OTHER REQUIREMENTS

REPORTING SPILLS AND ACCIDENTAL DISCHARGES

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Series 3, Section 1 of the Environmental Quality Boards regulations.

Attached is a copy of the West Virginia Spill Alert System for use in complying with Series 3, Section 1 of the regulations as they pertain to the reporting of spills and accidental discharges.

2. HAULAGEWAYS AND ACCESS ROADS

Havingeways and access roads shall be constructed and maintained in accordance with best management practices including, but not limited to, the performance standards contained in Title 38, Series 2, Section 4 of the West Virginia Surface Mining Reclamation Regulations.

3. RECEIVING STREAMS

The receiving streams shall be monitored by grab samples as required at the stream sampling points listed below, and the samples shall be analyzed for the parameters listed below. The flow of the stream shall be estimated at the time of monitoring. Monitoring shall be done approximately at the same time as the points are monitored as required under Section A of this permit. A quarterly report of the stream monitoring and flow shall be sent to the NPDES section in Charleston, on the enclosed forms along with the reports required under Section A. Based upon the stream monitoring flow data, water quality standards or other information, the Department may at any time modify the effluent limits in Section A of this permit for any of the discharge points if necessary, to insure compliance with water quality standards.

STREAM STATION	LATITUDE	LONGITUDE	ELEV.	<u>PARAMETERS</u>
DOB	37°52"46'	81°49"40'	980	Stream Flow cfs/pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DPB	37°53"03'	81°49"27'	981	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DSCB	37°54"37'	81°48"21'	878	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DSF	37°54"41'	81°48"24'	880	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
DWOB	37°51"37'	81°48"30'	1078	Stream Flow cfs/pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
USCB	37°54"06'	81°47"10'	1030	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)

STREAM STATION	LATITUDE 1	LONGITUDE	ELEV.	<u>PARAMETERS</u>
USF	37°51"15'	81°48"30'	1081	Stream Flow cfs/ pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)
UWOB	37°51"36'	81°47"12'	1370	Stream Flow cfs/pH/ Selenium, Total Recoverable/ Iron, Total (As Fe)/ Manganese, Total/ Aluminum, Total (as Al)/ Aluminum, Dissolved (As AL)

SURFACE MINES

If the coal mining operation has been granted Phase II revegetation release and all discharge points have been eliminated during the period this permit is in effect, the discharge limitations and monitoring requirements in Section A and Section D.3 stream monitoring shall not apply. The coal mining operation shall be maintained in accordance with best management practices including, but not limited to the applicable performance standards contained in Title 38, Series 2, West Virginia Mining Reclamation Regulation until the associated performance bond has been final released.

DISSOLVED ALUMINUM WATER QUALITY STANDARD

EPA has approved a revision to the aquatic life chronic water quality standard for warm water streams in West Virginia. The revision temporarily modifies the chronic aluminum criterion from 87 ug/l to 750 ug/l for all waters except trout waters, and applies until July 4, 2007. If the temporary revision is not extended past July 4, 2007, or is not approved as a permanent revision, your permit may be reopened for reevaluation of the effluent limitations for aluminum.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; the plans and specifications submitted with Permit Application No. N/A, completed the N/A day of N/A N/A; the information submitted with the application for Reissuance No. WV1017021 completed the 30 day of May 2007, with the plan of maintenance and method of operation thereof submitted with such application(s) with the WVNPDES Regulations, Series 30 and with any applicable rules and regulations promulgated by the State Environmental Quality Board.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. N/A, completed the N/A day of N/A, N/A, with the information submitted with Application No. for Reissuance No. WV1017021 completed the 30 day of May, 2007 and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 11, Chapter 22 of the code of West Virginia.

This permit is issued in accordance with the provisions of Article 11, Chapter 22 of the Code of West Virginia and is transferable under the terms of WVNPDES Regulations, Series 30, Subsection 3.5.c.

STATE	OF WEST	VIRGINIA

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE LOCATION OF FACILITY: Logan PERMIT NO.: WV1017021 OUTLET NO.: 001	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:									
WASTELOAD FOR THE MONTH OF: ASSOCIATED PERMITS: S501397	INDIVIDUAL PERFORMING ANALYSIS:									
Report the rainfall for the 24 hour period prior to each sample included in this report Rainfall (in) Date Report the rainfall for the 24 hour period prior to each sample included in this report	in the spaces provided below.									

	Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.											
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date			

Effective 08/07/2007 To

				Quantity					Other Units	3			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				0.714						· · · · · · · · · · · · · · · · · · ·		
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A	į.	1,	Semi-monthly	Estimated
00400	Reported												
рH	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00	Std Units		Semi-monthly	Grab
00530	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported												
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported										<u></u>		
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20	UG/L		Semi-monthly	Grab
01045	Reported												
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.25	0.43	MG/L		Semi-monthly	Grab
01055	Reported	:											
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	3.47	MG/L		Semi-monthly	Grab
01105	Reported												
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

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DISCHARGE	MACNIZ	CODING	DEDOD.
DISCHARGE	MONII	UKING	REPUR

OCATION OF FACILITY	O LOGAN COA	SL CONIPA	VI. SPRU		IIINE		OMMERCIA OMMERCIA						
PERMIT NO.: WV10170		OUTL	ET NO.:				O'AIIAIP1 /OIL		.,, O NO				
VASTELOAD FOR THE	MONTH OF: _					IN	DIVIDUAL	PERFORM	AING ANAL	.YSIS <u>:</u>		· ·	· · · · · · · · · · · · · · · · · · ·
ASSOCIATED PERMITS	S501397												
							<u>i gjanjaros provincios provincio</u>		··········	<u>.</u>			
Report the rainfall for the Rainfall (in) Date	<u>e 24 hour perio</u> I R	od prior to e tainfall (in)	ach samp Date		in this rep Rainfal	ort in the sp I (in)	oa∈ ∴ovi Date	ded below. Ra	infall (in)	Date		Rainfall (in)	Date
				<u> </u>									
			Effe	ctive 08/07	/2007 To								
	·			Quantity					Other Units				Sample
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Туре
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only	IVIG/L		Semi-monuny	GIAD
	Reported												
	Permit Limits				1								
	Reported												
	Permit Limits				1								
	Reported			·									
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	Permit Limits				1					1			

qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

STATE	OF !	MECT	MDG	INIIA
SIMIL	UE.	VVESI	VIAG	1 4 1 /-

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DIOCILA		MONITORINA	
DISCHA	K(SE	MONITORING	SKHHUK

FACILITY NAME: MINGO LOGAN COAL LOCATION OF FACILITY: Logan PERMIT NO.: WV1017021	NE	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:						
WASTELOAD FOR THE MONTH OF: ASSOCIATED PERMITS: <u>\$501397</u>		INDIVIDUAL PERFORMING ANALYSIS:						
Report the rainfall for the 24 hour period	d prior to each same	ole included i		e spaces provid	ed below.			
Rainfall (in) Date Ra	infall (in) Dat	le	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

				Quantity		Other Units			1				
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average		Units	Number Exceed.	Measurement Frequency	
00058	Reported				ODM							Comi monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported									Stel I Inite		Sami manthly	Grab
рН	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00	Std Units		Semi-monthly	Giab
00530	Reported				·					MG/L		Semi-monthly	Crob
Total Suspended Solids	Permit Limits	N/A	N/A	N/A	1.		Rpt Only	35.00	70.00	- IVIG/L	Serii-Honding	Jiab .	
00545	Reported							Ì		0.41.71.*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A	1		N/A	N/A	0.50	ML/L*		of Permit	
00981	Reported									1101		Cami monthly	Croh
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A	1	ľ	Rpt Only	4.70	8.20	UG/L		Semi-monthly Grab	Giab
01045	Reported									1404		Camai maamathlu	Crob
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.25	0.43	MG/L	Ì	Semi-monthly	Grab
01055	Reported									1400		Camai ma amélala	Cook
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47	MG/L	Semi-monthly	GIAD	
01105	Reported											Carral an amable.	Cook
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Com	nle	ted

STATE OF WEST VIRGINIA	NATIONAL POL	LUTANT DISCH	IARGE ELIMINAT	ION SYSTEM	: .	DISCHARGE MONITORING REPOR		
FACILITY NAME: MINGO LOGAN COAL COMPLOCATION OF FACILITY: Logan			•	ABORATORY NAM ABORATORY ADD				
WASTELOAD FOR THE MONTH OF: ASSOCIATED PERMITS: S501397	TLET NO.: <u>002</u>		INDIVIDUAL PE	RFORMING ANALY	SIS <u>:</u>			
Report the rainfall for the 24 hour period prior to Rainfall (in) Date Rainfall (i	o each sample included in	this report in the Rainfall (in)	e enace provided Date	below. Rainfall (in)	Date	Rainfall (in)	Date	

				Quantity	·				Other Units			╛	Sample
Parameter	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Туре	
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported					1]			
	Permit Limits							/			-		
	Reported												
	Permit Limits									<u> </u>	<u> </u>		
	Reported	, "											
	Permit Limits] ·						<u> </u>		
	Reported							<u> </u>		1			
	Permit Limits									<u> </u>			
	Reported					1				1			
	Permit Limits					-			ļ	<u> </u>			
	Reported								ļ	_	}		
	Permit Limits	3									 		
	Reported									_[
	Permit Limits	s				1						<u> </u>	<u></u>

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Data	Complete	A
Date	Complete	u

STATE	OF'	WEST	VIR	GINIA
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCH	ADCE	MONITORING	DEDADI

FACILITY NAME: MINGO LOCATION OF FACILITY PERMIT NO.: WV10170		(; SPRUCE NO.: 003	1 MINE		LABORATORY NAM LABORATORY ADD			
WASTELOAD FOR THE I	MONTH OF:	<u></u>		INDIVIDUAL P	ERFORMING ANALY	SIS:		
Report the rainfall for the Rainfall (in) Date	24 hour period prior to eac Rainfall (in)	ch sample includ Date	ed in this report in the Rainfall (in)	e spaces provide Date	ed below. Rainfall (in)	Date	Rainfall (in)	Date

Effective 08/07/2007 To

		Quantity							Other Unit	S			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported			*.	ODIA								
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A		[:	Semi-monthly	Estimated
00400	Reported									Otal Linde		0	01
рН	Permit Limits	N/A	N/A	N/A			6.00	Rpt Only	9.00	Std Units		Semi-monthly	Grab
00530	Reported									-MG/L		Comi monthly	Croh
Total Suspended Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	35.00	70.00	-IVIG/L		Semi-monthly	Grab
00545	Reported						***			AAL (I *		See Section A	Crob
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50	—ML/L*		of Permit	Glab
00981	Reported							·		UG/L		Semi-monthly	Crob
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A	1		Rpt Only	4.70	8.20	JUG/L		Semi-monthly	Giau
01045	Reported									-MG/L		Comi monthly	Grob
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.26	0.50	-IVIG/L		Semi-monthly	Giab
01055	Reported									MG/I		Comi monthi:	Crob
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47	MG/L		Semi-monthly	Giab
01105	Reported		·							MCII		Comi monthi	Grob
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	GIAD

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Date	Completed

MONITORING	

STATE OF WEST	T VIRGINIA		NA.	TIONAL P	OLLUTAN'	T DISCHA	RGE ELIMII	NATION SY	STEM		DIS	CHARGE MON	TORING REPORT
, 1	MINGO LOGAN C ACILITY: Logan	OAL COMPA	NY; SPRUC	ENO.1 M	AINE			AL LABORA AL LABORA					
	VV1017021 OR THE MONTH OF ERMITS: \$501397		ET NO.: _0	03		11	IDIVIDUAL	PERFORM	ING ANAL	YSIS <u>:</u>			
· ·	all for the 24 hour p	eriod prior to e	each sample	e included	in this rep	ort in the s	owes provi	ded below.					
Rainfall (in)	Date	Rainfall (in)	Date		Rainfa	II (in)	Date		nfall (in)	Date		Rainfall (in)	Date
	<u> </u>	<u> </u>	Effec	tive 08/07	//2007 To								
				Quantity				(Other Units				Commis
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
04400	Panartad						ĺ		- T - N				

			Quantity					Otner Units	<u> </u>		1	1	
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceéd.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
)1106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
·	Permit Limits												
	Reported												
	Permit Limits												
	Reported]			
	Permit Limits				1		<u> </u>						
	Reported												
	Permit Limits						<u> </u>			<u> </u>			
	Reported]			
	Permit Limits												
·- ·	Reported									1			
	Permit Limits												
	Reported												
	Permit Limits												

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Date	Com	pleted

STATE OF WEST VI	RGINIA
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DIOCULADOR	MONITODINO	DEDOD
DISCHARGE	MONITORING	KEPUKI

FACILITY NAME: MINGO LOGAN COAL	COMPANY: SPRUCE NO.1 N	MINE	COMMERCIAL LABORAT	ORY NAME:		
LOCATION OF FACILITY: Logan			COMMERCIAL LABORAT	ORY ADDRESS:		
PERMIT NO.: <u>WV1017021</u>	OUTLET NO.: 004			· · · · · · · · · · · · · · · · · · ·		
WASTELOAD FOR THE MONTH OF:			INDIVIDUAL PERFORMIN	NG ANALYSIS:		
ASSOCIATED PERMITS: S501397						
Developed to the state of the s						

	I for the 24 hour po	eriod prior to each	sample included in	n this report in the	spaces provided b	elow.			1.5
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
	-	-							

Effective 08/07/2007 To

		Quantity							Other Units				
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	t Sample Type
00058	Reported				CDM				1				
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A		*	Semi-monthly	Estimated
00400	Reported									0.11			
рН	Permit Limits	N/A	N/A	N/A	~		6.00	Rpt Only		Std Units		Semi-monthly	Grab
00530	Reported									146#		0	Owel
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported									AAL // *		Con Continu A	Oneh
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50	ML/L*		See Section A of Permit	GiaD
00981	Reported									UG/L		Comi monthly	Cook
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	4.70	8.20	UG/L		Semi-monthly	Grab
01045	Reported		•							MC		C:	· Cont
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported			an t						MC#		C	Ob
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	3.47	MG/L		Semi-monthly	Grab
01105	Reported									MG/L		Comi monthi	Crah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	IVIO/L		Semi-monthly	GIAD

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STATE OF WES	T VIRGIN	NIA		NA'	TIONAL PO	OLLUTAN	T DISCHAF	SCHARGE ELIMINATION SYSTEM				DIS	DISCHARGE MONITORING REPORT		
FACILITY NAME			AL COMPA	NY; SPRUC	E NO 1 M	IINE		COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:							
PERMIT NO.: \(\)\ WASTELOAD FOR ASSOCIATED P	OR THE	MONTH OF:		ET NO.: _0	004		IN	DIVIDUAL	PERFORM	ING ANAL	YSIS:				
Report the rain			iod prior to s	ach sampl	o included	In this ren	ort in the er	aces provi	ded below		- XXXIII - X				
Rainfall (in)	Date		Rainfall (in)	Date		Rainfa		Date	Raj	nfall (in)	Date		Rainfall (in)	Date	
	<u> </u>			Effec	tive 08/07	/2007 To				and the second second	\$580 oc				
					Quantity				A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Other Units	}] Measurement	Sample	
Parameter	r		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Frequency	Туре	
01106		Reported									MG/L		Semi-monthly	Grab	
		1		1		1	i i	₹ ·	l	L . a .	1	1	1		

		Quantity				a del contra communicación de	Other Athe	<u> </u>					
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported					Ji.							
	Permit Limits												
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	Reported												
	Permit Limits				1	1							

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	STATE	OF W	/FST \	VIRGI	NIA
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE	MONITORING	REPOR'

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME:						
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:						
PERMIT NO.: WV1017021 OUTLET NO.: 005 WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:						
ASSOCIATED PERMITS: <u>\$501397</u>							

Report the rainfal	Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.											
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date			

Effective 08/07/2007 To

				Quantity					Other Units	}		1.	
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Sami monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GI W	. :	N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported					·			13	Std Units	_	Semi-monthly	Grah
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Old Ollits		Semi-monuny	Giab
00530	Reported	·								MG/L		Sami manthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	IVIG/L	Seminor	Semi-monthly	Giab
00545	Reported									ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0,50	IVILIL		of Permit	
00981	Reported									UG/L		Somi monthly	Grob
Selenium, Total Recovers	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only	UG/L	Semi-monthly	Grab	
01045	Reported		-							MG/L		Somi monthly	Crob
iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	IVIGIL		Semi-monthly	Grab
01055	Reported	• .								MG/L		Somi monthly	Grah
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	IVIG/L		Semi-monthly	Giab
01105	Reported									MG/L		Somi monthly	Grob
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	IVIG/L		Semi-monthly	Giab

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1	Date	^	
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STATE OF WEST VIRGINIA		NATIONAL	DISCHARGE MONITORING REPOR						
FACILITY NAME: MINGO LOGAN LOCATION OF FACILITY: Logan		SPRUCE NO.: NO.: 005	1 MINE	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:					
PERMIT NO.: WV1017021 WASTELOAD FOR THE MONTH O ASSOCIATED PERMITS: S501397)F:	NO <u>003</u>		INDIVIDUAL P	ERFORMING ANALY	(SIS <u>:</u>			
Report the rainfall for the 24 hour Rainfall (in) Date	period prior to eac Rainfall (in)	h sample includ	led in this report in th Rainfall (in)	e spaces provid Date	ed below. Rainfall (in)	Date	Rainfall (in)	Date	
			/07/0007 To		<u> </u>				

			Effective 08/07/2007 To				Other Units						
Parameter		Minimum	Average Monthly	Quantity Max. Daily	Units	Number Exceed.	Minimum	Average	Max.	Units	Number Exceed.	Measurement Frequency	Sample Type
1106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A	<u>.</u>		Rpt Only	Rpt Only					<u></u>
	Reported									·			٠.
	Permit Limits												
The second secon	Reported												•
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	Permit Limits								<u> </u>	<u> </u>			
	Reported							<u> </u>		1			
	Permit Limits										<u> </u>		
	Reported							<u> </u>		-			
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	Reported				_				 	4			
	Permit Limits	3								1	1	<u> </u>	<u> </u>

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Date Completed				
Signature/Title of Principal Officer				
	* 1			

ST	ATF	OF	WEST	VIRG	INIA

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>006</u>	
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:
Report the rainfall for the 24 hour period prior to each sample included in this repo	rt in the spaces provided below.
Rainfall (in) Date Rainfall (in) Date Rainfall	(in) Date Rainfall (in) Date Rainfall (in) Date

Effective 08/07/2007 To

			•	Quantity	,				Other Units	3			i —
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							C	
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A	1		Semi-monthly	Estimated
00400	Reported									CALLIST		Carri manufit	Comb
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported									140/		0	Owek
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L	ł	Semi-monthly	Grab
00545	Reported									5.41.71.±		C Cti A	Cb
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported									140#			O 1-
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported					,				1401		Carri manashkir	Crah
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported						`					0	0 - 1
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grap
01105	Reported		. *							Ì			
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A		·	Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

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DISCHARGE MONITORING REPO	Ð,

FACILITY NAME: M	INGO LOGAN COA	AL COMPA	NY: SPRU	CE NO.1 M	IINE	C	OMMERCIA	AL LABOR	ATORY NA	ME:			
LOCATION OF FACI						C	OMMERCIA	AL LABOR	ATORY AD	DRESS: _			
PERMIT NO.: WV1	017021	OUTL	ET NO.:	006						· · · · · · · · · · · · · · · · · · ·			
WASTELOAD FOR	THE MONTH OF: _					IN	IDIVIDUAL	PERFOR	MING ANAL	YSIS <u>:</u>			
ASSOCIATED PERM	итs: <u>S501397</u>	,	· · · · · · · · · · · · · · · · · · ·			The second secon			·	<del></del>			
							(						
Report the rainfall for	or the 24 hour period	od prior to e	ach samp	le included	in this repo	or in the a	<u>မန္တင္ေန provi</u>	ded below		1 0-4-		Deinfall (in)	Date
Rainfall (in)	Date R	lainfall (in)	Date	<del></del>	Rainfal	(in)	Date	RE	infall (in)	Date		Rainfall (in)	Date
L			Effor	ctive 08/07/	/2007 To					<u></u> .	1		
		F	Elle	Quantity	2007 10		<del></del>		Other Units				
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number	Minimum	Average	Max.	Units	Number Exceed.	Measurement Frequency	Sample Type
04400	Reported	Walter	IVIOLITIN	Daily	Office	LACCEU.	i vani in in casta	lvioriumy	Duny	Office	Exceed.		
01106										MG/L		Semi-monthly	Grab
Aluminum, Dissolved		N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
• 3	Permit Limits										,		
	Reported						1.				ļ. 		
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	Permit Limits					*							
	Reported	:	•								ļ.		* * * * * * * * * * * * * * * * * * * *
	Permit Limits									<u> </u>			
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Date Completed

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DISCHARGE	MONITORING	BEDOD.
DIOCHARGE		REPUR

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE	COMMERCIAL LABORATORY NAME:	
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:	
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>007</u>		
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:	
ASSOCIATED PERMITS: S501397		
Report the rainfall for the 24 hour period prior to each sample included in this report	in the spaces provided below.	

	II for the 24 hour p	eriod prior to each	sample included	in this report in the	spaces provided b	elow.			
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
			F			<u> </u>	· · · · · · · · · · · · · · · · · · ·		

#### Effective 08/07/2007 To

				Quantity					Other Unit:	3			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported			7 .	-GPM								
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	- GPIVI		N/A	N/A	N/A	1		Semi-monthly	Estimated
00400	Reported												
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported				1					140"			_
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported												
Settleable Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported												
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported												
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A		·	Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported												
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported												
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	_	
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DISCHARGE	MONIT	CORING	REPOR'
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0.,,,,					<del> </del>	<del></del>								· · · · · · · · · · · · · · · · · · ·
FACILITY NAME:	MINGO	LOGAN CO	AL COMPA	NY; SPRU	CE NO.1 M	INE		OMMERCIA						
LOCATION OF FA	ACILITY	: Logan			·		c	OMMERCIA	AL LABOR	ATORY AD	DRESS: _			
PERMIT NO.: W	/V10170	)21	OUTL	ET NO.: _	007						14010			<del></del>
WASTELOAD FO					· · · · · ·		IN	IDIVIDUAL	PERFORM	IING ANAI	_YSIS <u>:</u>			
ASSOCIATED PE	RMITS	<u>S501397</u>			·	·					<del></del>			
						<del></del>	·							
Report the rainfa	all for the	24 hour peri	od prior to e	ach samp Date	<u>le included</u>	in this repo	ort in the s	paces provi Date	ded below	infall (in)	Date		Rainfall (in)	Date
Rainfall (in)	Date		Rainfall (in)	Date	<del> </del>	Kaiman	(11)	Date	1/2	inian (m)	Date		Ttannan (m)	
	1	<u></u>		Fffe	ctive 08/07	/2007 To	<u>_</u>				<del></del>			
			T		Quantity	7200. 10	<del></del>	T		Other Unit	S	<del></del>		
Parameter			Minimum	Average Monthly	Max. Daily	Units	Number Exceed	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
04406		Reported	- Ivanian data	Iviolitally	<u> </u>									
01106					<u> </u>	-		<u> </u>	<u> </u>		MG/L		Semi-monthly	Grab
Aluminum, Disso	ved (As	Permit Limits	N/A	N/A	N/A		·	Rpt Only	Rpt Only	Rpt Only	ļ	<b></b> _		
		Reported									1		1	
		Permit Limits								<u> </u>			J	
		Reported												
		Permit Limits	,		ļ .								-	
		Reported												
	1	Permit Limits					ł				1			
		Reported	<del> </del>											
	* *	Permit Limits				1								
		Reported										1		
		Permit Limits				1					1	1		
		Reported												
	•	Permit Limits	, <del> </del>		<del> </del>	1					1 .			
		Reported						1	1					
		Permit Limits			<del>. </del>	<b>†</b> :			<del>                                     </del>		1			
		1	•	1	1									

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

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$\sim 1 \Delta$	( )-	VV -> 1	VIRCINIA

DISCHARGE	MONITOR	SING	REPOR

FACILITY NAME: MINGO LOGAN COALLOCATION OF FACILITY: Logan	L COMPANY: SPRUCE NO	1 MINE		LABORATORY NAM				
PERMIT NO.: WV1017021 WASTELOAD FOR THE MONTH OF: _ ASSOCIATED PERMITS: S501397	OUTLET NO.: <u>008</u>		INDIVIDUAL PERFORMING ANALYSIS:					
Report the rainfall for the 24 hour period		ded in this report in t		d below.	Data	Rainfall (in)	Date	
Rainfall (in) Date Ra	ainfail (in) Date	Rainfall (in)	Date	Rainfall (in)	Date	Naman (m)	Date	

Effective 08/07/2007 To

		Quantity					Other Units						
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A			Ochin-monthiny	
00400	Reported									Std Units	-	Semi-monthly	Grab
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Old Ollito			
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	1			
00545	Reported									ML/L*		See Section A	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	ly Rpt Only 0.50		of Permit			
00981	Reported	,								MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	111072		Com monuny	Olab
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	1110/2			
01055	Reported									MG/L	٠.	Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	4.00			Octili illolitaliy	0.00
01105	Reported	1.		<u>.</u>						MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	<u> </u>		Rpt Only	0.43	0.75				

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Date	Com	pleted
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STATE OF WEST VIRGINIA	NATIONAL POLLUTANT	DISCHARGE ELIMINATION SYSTEM	DISCHARGE MUNITURING REPOR		
FACILITY NAME: MINGO LOGAN COAL O	OMPANY; SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS: _			
PERMIT NO.: WV1017021 WASTELOAD FOR THE MONTH OF:	OUTLET NO.: 008	INDIVIDUAL PERFORMING ANALYSIS:			

Report the rainfa	Il for the 24 hour n	eriod prior to each	sample included in	n this report in the	spaces provided b	elow.	Dete	Rainfall (in) Date
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Raiman (iii)
		:			<u>L</u>	<u> </u>		

Effective 08/07/2007 To

		Quantity					Other Units					8.6	Sample
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units Number Exceed.	Measurement Frequency	Туре	
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits								<u> </u>		- 11		
	Reported									<u> </u>			
	Permit Limits								<u> </u>	<u> </u>		, , , , , , , , , , , , ,	
	Reported									-			
	Permit Limits									ļ	<del> </del>		
	Reported					ļ ·	ļ	ļ	<del> </del>	4			
	Permit Limits									<u> </u>			
	Reported								<del> </del>	4			
	Permit Limits							<u> </u>					
	Reported						<u> </u>			4			
en e	Permit Limits	;							_				
	Reported									4			
	Permit Limits	3		<u> </u>								<u></u>	<u></u>

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ASSOCIATED PERMITS: S501397

	Date	Cor	nple	ted
ı				

Signature/Title of Principal Officer

DISCHARGE MONITORING REPORT

STATE	OF	WEST	VIRGINI	Α

DISCHARG	F MONITORI	NG REPOR

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME:
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>009</u>	
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:
ASSOCIATED PERMITS: S501397	
Report the rainfall for the 24 hour period prior to each sample included in this report in	the spaces provided below

#### 

## Effective 08/07/2007 To

				Quantity					Other Units	3			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Cami manthi	F-Aire-A-d
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A	l		Semi-monthly	Esumated
00400	Reported	1								Ctd Unite		Comi monthly	Crah
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported		,							MG/L		Comi monthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	IVIG/L		Semi-monthly	Giab
00545	Reported				·					ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	IVILIT		of Permit	Giab
00981	Reported									MG/L		Comi monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIG/L		Semi-monthly	Glab
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	WG/L		Semi-monthly	Giab
01055	Reported					·-				NAC#		Comi monthi	Croh
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	GIAD
01105	Reported									140/		Comi monthiu	Crob
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

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Date	Com	nleted
Date	OULL	DICTOR

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SIAIF	C)F	WEST	VIRGINIA	ı

<b>DISCHARGE</b>	MONIT	<b>FORING</b>	REP	ORT

STATE OF WEST VIRGINIA NATIONAL POLLUTANT DISCH					ASCHARGE ELIMINATION STOTEM BIOCHT INC.				
FACILITY NAME LOCATION OF F PERMIT NO.: \	FACILITY: Loga		: SPRUCE NO	1 MINE		LABORATORY NAI			
WASTELOAD FO	OR THE MONTI	H OF:			INDIVIDUAL F	ERFORMING ANAL	YSIS <u>:</u>		
Report the rain	fall for the 24 ho	ur period prior to eac	h sample inclu	ded in this report in th	e spaces provid	ed below.			
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
							<u> </u>		
			Effective 08	3/07/2007 To					
			Ouan	tity		Other Units			1

				Quantity					Other Units			<u>.</u>	
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106	Reported									MG/L	•	Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only					
	Reported												
	Permit Limits												
	Reported		Ţ.							·			. •
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits					: •							
	Reported												
	Permit Limits			*									
	Reported												
	Permit Limits												
	Reported												
	Permit Limits												

**Date Completed** 

ST	ATE	OF	WF	STI	/IR	GIN	IΑ

Date

Rainfall (in)

### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

MONITORING	

Date

Rainfall (in)

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME:	
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:	
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>010</u>		
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:	_
ASSOCIATED PERMITS: <u>S501397</u>		 
Report the rainfall for the 24 hour period prior to each sample included in this repo	rt in the spaces provided below.	

Date

Rainfall (in)

Date

Rainfall (in)

Effective 08/07/2007 To

Date

				Quantity					Other Unit	s			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	
00058	Reported				CDM								
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A	1		Semi-monthly	Estimated
00400	Reported						1 1			a			
pH	Permit Limits	N/A	N/A	N/A	1		6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported									146#		0	C I-
Total Suspended Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported									NA 4 +		00	O
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported									11011		0	0-1
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported							N. Company					
ron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported									1404			
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported												
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

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Rainfall (in)

ı	Date	Con	nnlete	

STATE OF WES	T VIRGINIA		N/	ATIONAL P	OLLUTAN	T DISCHA	RGE ELIMI	NATION S	YSTEM		DIS	CHARGE MON	ITORING REPOR		
FACILITY NAME	: MINGO LOGAN CO	AL COMPA	NY: SPRU	CE NO.1 A	MNE	C	OMMERCI	AL LABOR	ATORY NA	ME:			<u> </u>		
	ACILITY: Logan					C	OMMERCI	AL LABOR	ATORY AD	DRESS: _			·		
PERMIT NO.: 1	VV1017021	OUTL	ET NO.: _	010			INDIVIDUAL PERFORMING ANALYSIS:								
WASTELOAD F	OR THE MONTH OF:					IN	IDIVIDUAL	PERFORM	IING ANAI	_YSIS <u>:</u>	· · · · ·				
ASSOCIATED P	ERMITS: <u>\$501397</u>		<u> </u>								<u> </u>				
Report the rain	all for the 24 hour peri	od prior to	each samp	le included	in this rep	ort in the si	paces prov	ided below		-			<u> </u>		
Rainfall (in)	Date F	Rainfall (in)	Date		Rainfal	li (in)	Date	Ra	infall (in)	Date		Rainfall (in)	Date		
											<u>_</u>		<u> </u>		
	· · · · · · · · · · · · · · · · · · ·		Effe	ctive 08/07	/2007 To										
			Quantity						Other Unit	§ 	<del></del>	Measurement	Sample		
Parameter		Minimum	Average Monthly	Max. Daily		Number Exceed.	eed. Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	1 _	Туре		
01106	Reported									MG/L		Semi-monthly	Grob		
Aluminum, Disse	lved (As Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIG/L		Semi-monding	Glab		
	Reported														
	Permit Limits				1										
	Reported														
	Permit Limits		1		1								<u> </u>		
	Reported														
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	Permit Limits							S 1							
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i,	Permit Limits				1										

Reported
Permit Limits

Date Completed

STATE OF WES	T VIRGINIA		,N/	ATIONAL P	OLLUTAN	T DISCHA	RGE ELIMI	NATION S	YSTEM		DIS	DISCHARGE MONITORING REPORT		
FACILITY NAME	: MINGO LOGAN C	DAL COMPA	NY: SPRU	ICE NO.1 N	AINE	с	COMMERCIAL LABORATORY NAME:							
LOCATION OF	ACILITY: Logan			•		c	COMMERCIAL LABORATORY ADDRESS:							
PERMIT NO .: 1	NV1017021	OUT	LET NO.:	012										
	WASTELOAD FOR THE MONTH OF:							PERFORI	IING ANAL	YSIS <u>:</u>				
ASSOCIATED PERMITS: S501397										····				
		* *												
Report the rain	fall for the 24 hour pe	riod prior to	each samp	le included	in this rep	ort in the s	paces provi	ded below				31.	· · ·	
Rainfall (in)	Date	Rainfall (in)			Rainfal		Date		infall (in)	Date		Rainfall (in)	Date	
		<u></u>												
· · · · · · · · · · · · · · · · · · ·			Effe	ctive 08/07	/2007 To								- · · · · · · · · · · · · · · · · · · ·	
				Quantity	,				Other Units		· · · · · · · · · · · · · · · · · · ·			
Parameter Average Max. Number Minimum Monthly Daily Units Exceed. Minimum		Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type							
00058	Reported				GPM						Semi-monthly Estir		Estimated	
Flow		N/A												
00400	Donostod													

Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Somi monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A	<b>i</b> .		Semi-monthly	Estimateu
00400	Reported								·	Std Units	t.	Semi-monthly	Grah
р <b>Н</b>	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Sid Offics		Semi-monthly	Giab
00530	Reported									MG/L		Semi-monthly	Grob
Total Suspended Solids	Permit Limits	N/A	N/A	N/A	1 .		Rpt Only	35.00	70.00	IVIG/L		Semi-monuny	Giau
00545	Reported									NAL (I *		See Section A	Croh
Settleable Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	0.50	ML/L*	*.	See Section A of Permit	Giau
00981	Reported						- 1			MG/L		Comi monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A	]		Rpt Only	Rpt Only	Rpt Only	IVIG/L		Semi-monthly	Giau
01045	Reported									MCII		Semi-monthly	Grob
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.25	0.43	MG/L	ł	Semi-monuny	Grab
01055	Reported								Ī .	MOU		Comi monthi	Crob
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	4.00	MG/L		Semi-monthly	GIAD
01105	Reported									1404		Comi monthi	Crah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

	Date	Completed
1	Date	Completed

<b>STATE</b>	OF	<b>WEST</b>	<b>VIRGINIA</b>
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MONITORING	

STATE OF WEST					25 NO 4 M	INIT	C	MMERCIA	L LABORA	TORY NA	ME:		· · · · · · · · · · · · · · · · · · ·	
FACILITY NAME:			LCOMPA	Y; SPRU	JE NO. LIV	INE								
LOCATION OF FA	CILITY:	Logan	OUTL	ET NO : (	112			JIVIIVILI (O.)	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,					
PERMIT NO.: W	V10170	MONTH OF	00111	21 NO	712	:	IN	DIVIDUAL	PERFORM	ING ANAL	YSIS <u>:</u>			
WASTELOAD FO	DMITQ.	S501397												
ASSOCIATED PE	KIVII I O.													
Report the rainfa	II for the	24 hour perio	nd prior to e	ach sampl	e included	in this repo	ort in the si	oaces provi	ded below.				Rainfall (in)	Date
Rainfall (in)	Date	R	lainfall (in)	Date	)	Rainfal	(in)	Date	Ra	infall (in)	Date	_:	Kaimaii (iii)	Date
														<del></del>
				Effe	ctive 08/07	/2007 To		1		Other Units			T	
				A	Quantity Max.		Number		Average	Max.		Number	Measurement	Sample
Parameter			Minimum	Average Monthly	Daily	Units	Exceed.	Minimum	Monthly	Daily	Units	Exceed.	d. Frequency	Туре
01106	<del>.,;</del>	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissol		'	N/A	N/A	N/A		,	Rpt Only	Rpt Only	Rpt Only	WIGIL			
Administri, Blood		Reported	10,71											
		I			<u> </u>	┪.						ļ		<u> </u>
		Permit Limits						1	7.					
	,	Reported			<del> </del>	┨ `				<del>                                     </del>	1			
		Permit Limits					-				<del>                                     </del>	<u> </u>		
·		Reported					1	<u> </u>		<del> </del>	4	1		
		Permit Limits	3				1				<b>}</b>			
		Reported									4			,
		Permit Limits	,				`							
	<del></del>	Reported				. ,								
		Permit Limits	s			7								
		Reported												
		Permit Limits		<del> </del>		7								
	<u> </u>	Reported	<del></del>	-										
		Permit Limit		<u> </u>		-								
		remit Limit	<u> </u>		<del></del>		<del></del>							

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Ì	Date	Comp	lete
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DISCHA	RGE	MONITORII	NG REPOR

	·								
FACILITY NAME: MINGO	OGAN COAL COMPAN	: SPRUCE NO	1 MINE	COMMERCIA	L LABORATORY NAI	/IE:			
LOCATION OF FACILITY:	Logan			COMMERCIAL	L LABORATORY ADI	DRESS:			
PERMIT NO.: WV101702		ΓNO.: <u>014</u>				· · · · · · · · · · · · · · · · · · ·			
WASTELOAD FOR THE M	ONTH OF:			INDIVIDUAL F	PERFORMING ANAL				
ASSOCIATED PERMITS:	5501397		······································						
								.•	
Report the rainfall for the	24 hour period prior to eac	ch sample inclu	ded in this report in the	ne spaces provid	ed below.				
Rainfall (in) Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfali (in)	Date	Rainfall (in)	Date	
		Effective 08	3/07/2007 To						

		Quantity							Other Units	S			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A		. *	Semi-monuny	Estimated
00400	Reported					-				Std Units		Semi-monthly	Grab
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Sid Offics		Semi-monthly	Giab
00530	Reported									MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only 35.00 70.00	IVIGIL		Octili-monany	Glab		
00545	Reported				,					ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	IVI.D.L		of Permit	Glab
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIO/L		Gerni-monthly	Giab
01045	Reported	·			·					MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	IVIO/L		Genn-montally	Glab
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	IVIG/L		Semi-monthly	Giab
01105	Reported									MG/L		Comi monthly	Crob
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A		`	Rpt Only	0.43	0.75	IVIG/L		Semi-monthly	Giau

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Completed
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DISCHARGE N	<b>MONITORING</b>	REPOR
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STATE OF WES	VIRGI	NIV.	<del></del>	INA	I I ONAL P	OLLO IAIN		KGE ELIIVIII							
FACILITY NAME		-	AL COMPA	NY: SPRU	CE NO.1 N	IINE .		OMMERCIA							
LOCATION OF F			O1171	ETNO	04.4	· · · · · · · · · · · · · · · · · · ·		COMMERCIAL LABORATORY ADDRESS:							
PERMIT NO.: 1								IDIVIDUAL	PERFORM	AING ANAL	YSIS:				
ASSOCIATED P															
Report the rain	fall for the	24 hour peri	od prior to e	ach samp	le included	in this rep	ort in the s	paces provi	ded below	:f=(  /i=\	Date		Rainfall (in)	Date	
Rainfall (in)	Date	F	Rainfall (in)	Date	)	Rainfal	i (in)	Date	Ra	infall (in)	Date		Naman (m)	Date	
· · · · · · · · · · · · · · · · · · ·				Fffe	ctive 08/07	/2007 To	L	<del></del>			<u> </u>		· · · · · · · · · · · · · · · · · · ·		
					Quantity					Other Units	3			Cample	
Parameter			Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type	
01106		Reported									MG/L		Semi-monthly	Grab	
Aluminum, Disse	olved (As	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only	IVIO/E				
		Reported													
		  Permit Limits													
		Reported										:			
	e e i	Permit Limits				1			<u> </u>		1				
		Reported													
I	*	Permit Limits				1					1				
		Reported	<u> </u>												
- 1		Permit Limits				-			<del> </del>	<u> </u>	1	1	•		
		Reported	<u> </u>				-	1.							
		] '		ļ	-	-	1		<del> </del>	<del>                                     </del>	1				
		Permit Limits	3		<del> </del>		<u> </u>	<del> </del>	<del> </del>		-	+			
		Reported			<u> </u>	4					4				
		Permit Limits	4				<del> </del>		ļ			-			
		Reported				_					1				
		Permit Limits	3											<u> </u>	

Date Completed

STATE (	OF WEST'	VIRGINIA
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DISCHARGE	MONIT	ORING	REPORT

FACILITY NAME: MINGO LOGAN (LOCATION OF FACILITY: Logan PERMIT NO.: WV1017021		SPRUCE NO.: 015	1 MINE	COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:							
WASTELOAD FOR THE MONTH O ASSOCIATED PERMITS: \$501397				INDIVIDUAL F	PERFORMING ANALY	/SIS <u>:</u>					
Report the rainfall for the 24 hour p	eriod prior to eacl	<u>h sample includ</u>	ed in this report in the	e spaces provid	ed below.						
Rainfall (in) Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date			

### Effective 08/07/2007 To

		Quantity						·····	Other Unit	S			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM	- 1						0	
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported	· .								04414-74-			_
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported				٠.					MC/I		Comi monthly	Ob
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported									ML/L*		See Section A	Cook
Settleable Solids	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	0.50	IVIL/L		of Permit	Giab
00981	Reported						,	4		MCII		Carri manathi	Oh
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported						1 N	. ,		MC/I		0	
iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L	*.	Semi-monthly	Grab
01055	Reported									140"			<u> </u>
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported									1464		0	<b>^</b>
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A		2.0	Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Complete	d

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× 1 Δ 1 ►	1 31- V/V	 HIRLAHNIA

DISCH	ADCE	MONITO	RING	REPOR
DISCH	MRGE	MONITO	ONIN	KELON

ACILITY NAME: MING		AL COMPAI	NY: SPRU	CE NO.1 M	UNE								
PERMIT NO.: WV1017 VASTELOAD FOR THE ASSOCIATED PERMITS	021 MONTH OF: _	OUTL	ET NO.: _	015					MING ANAL				
Report the rainfall for th	e 24 hour perio	od prior to e	ach samp	le included	in this rep	ort in the sr	oaces provi	ded belov	1.			Dainfall (in)	Date
Rainfall (in) Date	R	Rainfall (in)	Date	9	Rainfal	l (in)	Date	R	ainfall (in)	Date		Rainfall (in)	Date
			Effe	ctive 08/07	/2007 To			: <b></b>					
	T			Quantity					Other Units	S	T	Measurement	Sample
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly		Units	Number Exceed.	Frequency	Туре
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (A	SPermit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits					<u> </u>	,						
	Reported						<u> </u>	<u> </u>					
	Permit Limits			<u> </u>							<u> </u>	· !	
	Reported							<u> </u>		<u>.</u>			
	Permit Limits									ļ	ļ		
	Reported			<u> </u>		1							
	Permit Limits					<u> </u>				<del> </del>	ļ		
	Reported							<u> </u>					
	Permit Limits									·			
	Reported									_			
	Permit Limits	3							<u> </u>				
	Reported												
	Permit Limits	3					1				1	1	
"I certify under penalty	of law that this	document a	and all atta	chments v	vere prepai	red			Date Co	ompleted			
under the direction or s qualified personnel pro	unervision in a	ccordance \	with a syst	em design	ed to assur	re that			I Date C	outhigres.			

responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

STATE	ΛE	MEGT	VIRCI	NΙΔ
SIAIL		VVEST	VIKGI	NIA

DISCHARGE MONITORING REPORT

FACILITY NAME: MINGO LOGAN ( LOCATION OF FACILITY: Logan			MINE		LABORATORY NAM LABORATORY ADI				
PERMIT NO.: WV1017021 WASTELOAD FOR THE MONTH O ASSOCIATED PERMITS: S501397	F:	NO.: <u>017</u>		INDIVIDUAL PERFORMING ANALYSIS:					
						·		• •	
Report the rainfall for the 24 hour p	eriod prior to each	sample include	d in this report in th	e spaces provid	ed below.				
Rainfall (in) Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	

#### Effective 08/07/2007 To

	-			Quantity					Other Units	3			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Comi monthly	Catimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVE		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported									Std Units		Comi monthly	Grab
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Sta Offics		Semi-monthly	Giau
00530	Reported									MG/L		Sami monthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	IVIG/L		Semi-monthly	Giab
00545	Reported									ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	IVILIL		of Permit	Grab
00981	Reported									MG/L	-	Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIO/L		Serii-Holliny	· ·
01045	Reported						4			MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	WIO/L		Genn-moriting	51ab
01055	Reported									MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	10.0/2		Ocini-mondiny	Siab
01105	Reported						-			MG/L		Semi-monthly	Grah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75			Octin-monany	Sido

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Con	npleted

STATE OF WEST	VIRGINIA		NAT	TIONAL PO	DLLUTANT DISCHA	RGE ELIM	INATION SY	STEM		DIS	CHARGE MONIT	ORING REPORT
	MINGO LOG	SAN COAL COMPAI	NY: SPRUC	E NO.1 M			IAL LABORA IAL LABORA					
PERMIT NO.: W' WASTELOAD FOI ASSOCIATED PE	V1017021 R THE MON	TH OF:	ET NO.: <u>0</u>	17	11	IDIVIDUA	PERFORM	ING ANAL)	YSIS <u>:</u>			
			each sample	e included	in this report in the s	pa <u>jes pro</u>	vided below.	7-11 (3-2)	1 Data		Rainfall (in)	Date
Rainfall (in)	Date	Rainfall (in)	Date		Rainfall (in)	Date	Rail	nfall (in)	Date		(Carrion (III)	
		1	Effec	tive 08/07 Quantity	/2007 To			Other Units				2
			Average	May	Number	+	Average	Max.		Number	Measurement	Sample Type

			Lilot	Quantity					Other Units			Measurement	Samnle
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Frequency	Sample Type
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As		N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported												
	Permit Limits									<u> </u>			
	Reported								ļ	4			
	Permit Limits								<b></b>	<del> </del>			
	Reported							ļ		4			1
	Permit Limits												
	Reported				]					4			
	Permit Limits												
	Reported				_]				<u> </u>	-			
	Permit Limits	3					1		_	-			
	Reported				<u>.</u>			<u> </u>		<b>-</b>			
	Permit Limits	3						<u> </u>			-		<del>                                     </del>
	Reported				, ,			_	<del></del>	_			
	Permit Limits	s					1				<u> </u>		

Date	Completed		

STATE OF WEST VIRGINIA	NATIONAL POLLUTANT	DISCHARGE ELIMINATION SYSTEM	DISCHARGE MONITORING REPORT
FACILITY NAME: MINGO LOGAN COAL COMPANY	SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME:	
LOCATION OF FACILITY: Logan		COMMERCIAL LABORATORY ADDRESS:	
PERMIT NO.: WV1017021 OUTLET	NO.: <u>018</u>		
WASTELOAD FOR THE MONTH OF:		INDIVIDUAL PERFORMING ANALYSIS:	

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.											
Rainfall (in) Date Rainfall (in) Date Rainfall (in) Date Rainfall (in) Date											
				. ,							

#### Effective 08/07/2007 To

		Quantity					Other Units						
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GРM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFW		N/A	N/A	N/A			Semi-monuny	LStilliated
00400	Reported							·		Std Units		Semi-monthly	Grah
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Stu Offits		Senti-monthly	Grad
00530	Reported									MG/L		Semi-monthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	IVIG/L		Ochil-monthly	Ciab
00545	Reported		,				·			ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	-livir) E	·	of Permit	0.40
00981	Reported									MG/L		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	10.072			
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	IVIO/L		Octili-Monthly	Ciab
01055	Reported			11						MG/L		Semi-monthly	Grah
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	IVIO/L		Semi-monthly	Grab
01105	Reported									MG/L		Semi-monthly	Grah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	]		Rpt Only	0.43	0.75	]""			Glau

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

ASSOCIATED PERMITS: S501397

Date Con	npleted		
Signature	e/Title of Principal Offic	er	

STATE OF WES	ST VIRGINIA		NATIONA	DISCHARGE MONITORING REPORT						
FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO.1 MINE LOCATION OF FACILITY: Logan PERMIT NO.: WV1017021 OUTLET NO.: 018					COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:					
WASTELOAD FOR THE MONTH OF: INDIVIDUAL PERFORMING ANALYS ASSOCIATED PERMITS: S501397					YSIS <u>:</u>					
Report the rain Rainfall (in)	nfall for the 24 h	our period prior to eac	h sample inclu Date	ded in this report in the Rainfall (in)	ne spaces provid Date	ed below. Rainfall (in)	Date	Rainfall (in)	Date	
<u> </u>			Fffective 08	/07/2007 To			<u> </u>			

		Quantity							Other Units				
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106	Reported		-							MG/L	-	Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only		IVIG/L		Octal-monany	0140
	Reported		,										
	Permit Limits		·										
	Reported												- 
	Permit Limits												
	Reported												
	Permit Limits												
	Reported												
	Permit Limits		• •										
	Reported												
	Permit Limits					<u>.</u>							
	Reported									,	-		
	Permit Limits					<u> </u>							
	Reported								7				
	Permit Limits												·

Date Completed		•	
Signature/Title of Principal	Officer		
•			

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DICCULADOF		
DISCHARGE	MONITORING	KFP()K

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE	_ COMMERCIAL LABORATORY NAME:								
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:								
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>019</u>									
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:								
ASSOCIATED PERMITS: <u>\$501397</u>									
Report the rainfall for the 24 hour period prior to each sample included in this report	Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.								
Rainfall (in) Date Rainfall (in) Date Rainfall (in)									

### Effective 08/07/2007 To

		Quantity							Other Unit	S			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				ODW.								
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A	-		Semi-monthly	Estimated
00400	Reported										-		
рH	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported		,										
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L	Semi-monthly	Grab	
00545	Reported												
Settleable Solids	Permit Limits	N/A	N/A	N/A	<u> </u>		Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported						· '			MOII		Semi-monthly	Grab
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L			
01045	Reported									MOI		0	o .
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported								·	MC		C	01
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported									MC#			
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	-MG/L		Semi-monthly	Grab

Date Completed		
Signature/Title of Principal Officer		

		VIRGINIA

DISCHARGE	MONITORING	REDOR
IDSUMARGE	INICHIAL LOCATIONS	REPUR

FACILITY NAME:	MINGC	LOGAN CO	AL COMPA	NY: SPRU	CE NO 1 M	INE		OMMERCIA				·		
LOCATION OF FA	ACILITY	Logan					C	OMMERCIA	AL LABOR	ATORY AE	DRESS: _		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
PERMIT NO.: W	<u>/V10170</u>	21	OUTL	.ET NO.: _	019									
WASTELOAD FO						<u> </u>	IN	DIVIDUAL	PERFORM	IING ANAI	_YSIS <u>:</u>			
ASSOCIATED PE	RMITS:	<u>\$501397</u>		<del> </del>	· .	· · ·			·					
·		· .												
Report the rainfa	Il for the	24 hour per	iod prior to e	each samp	le included	in this repo	ort in the sr	oaces provi Date	ded below.	infall (in)	Date	1	Rainfall (in)	Date
Rainfall (in)	Date		Rainfall (in)	Date	<del></del>	Rainfall	(in)	Date	, na	iiitali (iii)	Date		Trainian (III)	Date
	<u> </u>			Fffe	ctive 08/07	/2007 To			1					
			<del>1</del>	Lilo	Quantity	2007 10				Other Units	3			
Parameter			Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106		Reported							,					
			<b> </b>					D-1 O-1	D-4 O-b	D=4 O=b+	MG/L		Semi-monthly	Grab
Aluminum, Dissol			N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
		Reported												
	1	Permit Limits	3											
		Reported									1			
		Permit Limit:	s											
		Reported										,		
4		Permit Limit	s			]								
		Reported												
		Permit Limit	s			1					]			
		Reported		:										
		Permit Limit	s								<u> </u>			
		Reported						~						
		Permit Limit	s											
		Reported												
		Permit Limit	s								<u> </u>			
1														

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Complete	(
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STATE	OF	WEST	VIR	GIN	A
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DISCHA	RGE	MONIT	CORING	REPOR

STATE OF WES	I VIKGINIA	•	MATIONALIC	DECOTAIN DISCH	AITOL LEMIN	ATTOR OTOTEM		DIGGINATION MOTHER CHARGE			
and the second second	: MINGO LOGAN ACILITY: Logan	COAL COMPANY:	SPRUCE NO.1 MI		,	L LABORATORY NAM					
PERMIT NO.: WV1017021 OUTLET NO.: 020 WASTELOAD FOR THE MONTH OF: ASSOCIATED PERMITS: \$501397					INDIVIDUAL PERFORMING ANALYSIS:						
	·	period prior to each	sample included i	n this report in the Rainfall (in)	spaces provid	ed below. Rainfall (in)	Date	Rainfall (in)	Date		
							1				

Effective 08/07/2007 To

				Stive CO/O7	72007 10								
,		Quantity					Other Units						. Samula
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Old Grillo			
00530	Reported			1						MG/L		Semi-monthly	Grab
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00				
00545	Reported									ML/L*		See Section A	Grab
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*		of Permit	
00981	Reported								·	-MG/L	1	Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				Olab
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.26	0.45	IIIO/L			<u> </u>
01055	Reported									-MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	1		John mondiny	Grab
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	]		Rpt Only	0.43	0.75				Giab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

n	ate	Co	mn	اما	20
$ \boldsymbol{\nu}$	ale				

ACILITY NAME: MIN	ICO LOCANI CO	AL COMPA	NV- CDDII	CE NO 1 M	IINE	CO	OMMERCIA	L LABOR	RATORY NA	ME:			<u> </u>			
OCATION OF FACIL		AL COMPAI	AL: SERO			C	COMMISSIONAL LABORATORY ADDRESS.									
PERMIT NO.: WV10		OUTL	ET NO.:	020			are server to the					<del></del>				
ASTELOAD FOR TI							DIVIDUAL	PERFOR	MING ANA	YSIS <u>:</u>		<u> </u>				
SSOCIATED PERMI																
							·									
Report the rainfall for	the 24 hour perio	od prior to e	ach samp	<u>le included</u>	in this rep	ort in the st	paces provi	ded belov	v. ainfall (in)	Date		Rainfall (in)	Date			
Rainfall (in) D	ate F	Rainfall (in)	Date	)	Rainfal	ii (in)	Date		airiiaii (iii)	Date						
			Effe	ctive 08/07	/2007 To											
	·			Quantity	,200, 10	•			Other Unit	3			0			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly		Units	Number Exceed.	Measurement Frequency	Sample Type			
1106	Reported									MG/L		Semi-monthly	Grab			
Numinum, Dissolved	(As Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only							
	Reported						1									
	Permit Limits				1											
	Reported										ļ ·					
	Permit Limits	,			1						:					
	Reported									1						
	Permit Limits	3											<u> </u>			
	Reported										·					
	Permit Limits	3						<u> </u>			ļ					
	Reported				_				<u>.</u>	4						
	Permit Limits	s									ļ					
	Reported				1		<u>.</u>			_						
	Permit Limits	s						<b></b>		<u> </u>						
	Reported				_			<del> </del>	<u> </u>	4						
	Permit Limit	s			<u> </u>	<u> </u>		<u> </u>		1	<u> </u>	<u> </u>	J			
"I certify under pena	Ity of law that this	document	and all atta	achments v	were prepa	red			Date C	ompleted						
under the direction	or supervision in a	accordance	with a sys	tem design ation subm	ied to assu nitted. Base	ed on		<i>&gt;</i>		ure/Title of I	Principal (	Officer				
1		the monage	s tha eveta	m orthose	nersons (	airecuv I			Signati	ire/ ride of t	- micipai C	/IIIC <del>C</del> i				
responsible for gath and belief, true, acc	reate and comple	ota Iamau	iare inai ii	ere are su	ninkani De	Hawes I										
for submitting false	nformation includ	ling the pos	sibility of a	fine and i	mprisonme	ent for										
knowing violations."												1				

DISCI	HADGE	MONIT	OPING	REPORT
12151.1	TARLSE	NIUNII	LIKING	REPUR

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY NAME:COMMERCIAL LABORATORY ADDRESS:
PERMIT NO.: WV1017021 OUTLET NO.: 021 WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:
ASSOCIATED PERMITS: <u>\$501397</u>	

Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided below.										
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	
	•									

#### Effective 08/07/2007 To

				Quantity					Other Units	3			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM							Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFW		N/A	N/A	N/A	,	-		LStimated ,
00400	Reported									Std Units		Semi-monthly	Grah
pH	Permit Limits	N/A	N/A	N/A		<u> </u>	6.00	N/A	9.00	Old Office		Octili-Monthly	Olab .
00530	Reported	÷								MG/L		Semi-monthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A		. *	Rpt Only	35.00	70.00	IVIG/L		Semi-monuny	Glab
00545	Reported									ML/L*	"	See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	IVILI		of Permit	Olab
00981	Reported			1.						MG/L	-	Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIGIL		Octili-Inoritiny	Olab
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	IVIOIL	<u> </u>	Oemi-monthly	Ciab
01055	Reported									MG/L	• .	Semi-monthly	Grah
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	4.00	IVIG/L		OCHIR-MONUMY	Olab
01105	Reported									MG/L	-	Semi-monthly	Grah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.43	0.75	IVIG/L		Semi-mondity	Giab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Completed	

STATE OF WEST	VIRGINIA		NATIONAL P	OLLUTANT DISC	HARGE ELIMIN	ATION SYSTEM		DISCHARGE MONIT	ORING REPORT
	MINGO LOGA	AN COAL COMPANY;	SPRUCE NO.1 M	UNE		L LABORATORY NAM L LABORATORY ADD			
PERMIT NO.: W\ WASTELOAD FOF ASSOCIATED PEF	√1017021 R THE MONTI	OUTLET	NO.: <u>021</u>		INDIVIDUAL F	PERFORMING ANALY	'SIS <u>:</u>		
	**			in this remark in th	o encoce provid	led helow			
Report the rainfal Rainfall (in)	I for the 24 ho Date	ur period prior to eacl Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
			Effective 08/07	/2007 To			<u> </u>		
			Quantity	.2007 10		Other Units		Measurement	Sample

				Quantity					Other Unit	<u> </u>		<b>.</b>	Cample
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106	Reported	2								MG/L		Semi-monthly	Grab
Numinum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported									1			
	Permit Limits												
	Reported									1			
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Date	Completed	

01	ra s	re	^E	11	1/6	CT	1/1	DC	NIA	
3	IA.	ı 🗀	UF	v	V E		VI	RGI	INIA	ı

DISCHARGE	MONITORING	DEDOE

FACILITY NAME: MINGO LO LOCATION OF FACILITY: L PERMIT NO.: WV1017021	ogan	SPRUCE NO.1 M NO.: <u>022</u>			. LABORATORÝ NAM . LABORATORY ADD				
WASTELOAD FOR THE MOI ASSOCIATED PERMITS: <u>S5</u>				INDIVIDUAL P	ERFORMING ANALY	'SIS <u>:</u>			
		-							
Report the rainfall for the 24		sample included		spaces provide	ed below.				
Rainfall (in) Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (i	n) Dat	e

Effective 08/07/2007 To

				Clive OO/O/	,200, 10						<u> </u>		
	1	Quantity						Other Units					
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	t Sample Type
00058	Reported				GPM							0	
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIVI		N/A	N/A	N/A	1		Semi-monthly	Estimated
00400	Reported									0.111.75			
рН	Permit Limits	N/A	N/A	N/A		1	6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported		·										
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L	·.	Semi-monthly	Grab
00545	Reported											0 0 11 4	
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported						,			1.00		0	
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported												
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported	:								WO."			
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported												
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	1 .		Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

Date Completed	······································	·			
Signature/Title of Pri	ncipal Offi	cer			

STATE	OF	WEST	<b>VIRGINIA</b>
OIAIL.	<b>~</b> 1	***	4 11 1 VOII 411 1

MONITORING	

STATE OF WEST	VIRGII	NIA		N/	MONAL P	OLLUTAN	DISCHA	ISCHARGE ELIMINATION SYSTEM DISCHARGE WONTORING REPO									
FACILITY NAME: LOCATION OF F			L COMPA	NY: SPRU	CE NO.1 M	INE		COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:									
PERMIT NO.: V	/\/10170	121	OUTI	FT NO ·	022												
NASTELOAD FO	R THE	MONTH OF:			<u> </u>		<u> </u>	INDIVIDUAL PERFORMING ANALYSIS:									
ASSOCIATED PE	PMITS	S501397			***												
Report the rainfa		24 hour pend	od prior to e	ach samp	le included	in this rep	ort in the s	paces provi	ded below		T D-4-		Deinfell (in)	I Doto			
Rainfall (in)	Date	R	ainfall (in)	Date	<del>)</del>	Rainfal	l (ln)	Date	Ra	infall (in)	Date		Rainfall (in)	Date			
····	<u> </u>		<del></del>										<del>1</del>	<u></u>			
				Effe	ctive 08/07	/2007 To		·	·	T.							
					Quantity					Other Unit	§	<del></del>	Measurement	Sample			
Parameter	:		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Frequency	Туре			
01106		Reported					·			,	MG/L	•	Semi-monthly	Grab			
Aluminum, Disso	lved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only							
	:	Reported			<u> </u>	,					-						
		Permit Limits						<u> </u>									
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		Reported				1			<u> </u>		1 .						
		Permit Limits	<u> </u>	l	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>					
"I certify under p under the directi	enalty o	f law that this o	document a	and all atta	chments w	ere prepar	ed e that			Date Co	ompleted						
qualified person	nel prop	erly gather and	d evaluate t no manage	the informathe	ition submi 1. or those	tted. Based persons di	d on rectiv			Signatu	re/Title of F	rincipal Of	flicer				
responsible for cand belief, true, for submitting fa knowing violation	athering accurate Ise infori	the information	on, the info e. I am awa	rmation is, are that the	to the best ere are sign	t of my kno nificant pen	wledge alties										

STATE OF WEST VIRGINIA	NATIONAL POLLUTANT	DISCHARGE ELIMINAT	TION SYSTEM	DISCHARGE MONITORING REPOR		
FACILITY NAME: MINGO LOGAN COAL LOCATION OF FACILITY: Logan	COMPANY; SPRUCE NO.1 MINE	<del></del>	ABORATORY NAME:ABORATORY ADDRESS:			
PERMIT NO.: <u>WV1017021</u> WASTELOAD FOR THE MONTH OF:	OUTLET NO.: 023	INDIVIDUAL PE	RFORMING ANALYSIS:			
ASSOCIATED PERMITS: \$501397						

Report the rainfa	* * * * * * * * * * * * * * * * * * * *								
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
							1		
		*							

#### Effective 08/07/2007 To

			Quantity					Other Units		·			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM				1.7			Sami-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPW		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported									Std Units		Semi-monthly	Grah
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Offits		Seria-monung	Glab
00530	Reported									MG/L		Semi-monthly	Grah
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	WIGIL		Semi-monuny	Giab
00545	Reported									ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	IVICIC		of Permit	Grab
00981	Reported									MG/L		Semi-monthly	Grah
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A		·	Rpt Only	Rpt Only	Rpt Only	IIIO/L		Committee	Ciab
01045	Reported									MG/L		Semi-monthly	Grah
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	111072		Ochin-montany	Ciab
01055	Reported									MG/L		Semi-monthly	Grah
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00			Cern-monuny	Olab
01105	Reported			1						MG/L		Semi-monthly	Grah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75			Ochii-monuny	Olab

Date Completed			
Signature/Title of Principal Officer			

				NA.	TIONAL DO	; NULITANT	DISCHAF	RGE ELIMIN	IATION SY	STEM		DIS	CHARGE MONI	TORING REPORT
LOCATION OF FA	ACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE OCATION OF FACILITY: Logan									ATORY NAM				
WASTELOAD FOR	RMIT NO.: WV1017021 OUTLET NO.:  ASTELOAD FOR THE MONTH OF:  SOCIATED PERMITS: S501397						IN	DIVIDUAL	PERFORM	IING ANAL	YSIS <u>:</u>			
Report the rainfall	for the 2	4 hour peri	od prior to e	ach sampl	e included	in this repo	ort in the sr	oaces provid	ded below.				Boinfall (in)	Date
Rainfall (in)	Date	F	lainfall (in)	Date		Rainfall	(in)	Date	Ra	infall (in)	Date		Rainfall (in)	Date
												1		<u> </u>
	· · · · · · · · · · · · · · · · · · ·			Effec	tive 08/07	2007 To			·				·	
			1		Quantity	<u> </u>				Other Units		,	<b>.</b>	Commin
Parameter	:		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type

			Quantity			Other Units						Sample		
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Туре	
01106	Reported									MG/L		Semi-monthly	Grab	
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only					
	Reported		1.											
	Permit Limits											i		
	Reported													
	Permit Limits								<u> </u>					
	Reported													
	Permit Limits													
	Reported									4				
	Permit Limits									<b> </b>				
	Reported								<u> </u>	<u>.</u>	1			
	Permit Limits									<u> </u>				
	Reported													
	Permit Limits													
	Reported	*								_				
	Permit Limits	,						<u> </u>		<u> </u>	<u> </u>	<u> </u>		

Date Complete	d ·		 	
Signature/Title	of Principal Off	ficer		
			:	

SI	Δ.	ΓE	OF	W	EST	V	IR.	G	NI	Α

DISCHARGE MONITORING REPORT

FACILITY NAME: LOCATION OF FA PERMIT NO.: W	ACILITY: Logan		SPRUCE NO.	1 MINE	COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:						
WASTELOAD FO ASSOCIATED PE	R THE MONTH O	F:			INDIVIDUAL F	PERFORMING ANALY	YSIS <u>:</u>				
Report the rainfa Rainfall (in)	II for the 24 hour p	eriod prior to each Rainfall (in)	sample includ Date	ed in this report in the Rainfall (in)	ne spaces provid Date	led below. Rainfall (in)	Date	Rainfall (in)	Date		

#### Effective 08/07/2007 To

•				Quantity					Other Units	3			ant Sample
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				GPM					, and		Semi-monthly	Estimated
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GFIWI		N/A	N/A	N/A			Semi-monuny	Esumateu
00400	Reported									Std Units		Semi-monthly	Grah
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Stu Offics		Semi-monany	Glau
00530	Reported									MG/L		Comi monthly	Croh
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	IVIG/L		Semi-monthly	Giab
00545	Reported									ML/L*		See Section A	Grah
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	INITIA		of Permit	Giab
00981	Reported									MG/L		Semi-monthly	Grah
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIG/L		Seriii-iiioiidiiy	Giab
01045	Reported									MG/L		Semi-monthly	Grah
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	IVIG/L		Senti-monthly	Giab
01055	Reported	·		·						MG/L		Comi monthly	Croh
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	IVIG/L		Semi-monthly	Giab
01105	Reported	-								MG/I		Somi monthly	Grob
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L	:	Semi-monthly	GIAD

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Completed	

STATE	OF WEST'	VIRGINIA

DIOG!!!! DOC	MACHITAN	
DISCHARGE		1611 - DED( 10
DISCHARGE	INCOME FOR	MAG INTE OU

STATE OF WES	VIRGII	VIA		197	THUNAL	OLLOTAN	DISCHA	NGE ELIMI	ATTON 5	OILIN			OTH WOLLING	
FACILITY NAME LOCATION OF F PERMIT NO.: \(\)	ACILITY	: Logan			·		c	OMMERCI/ OMMERCI/						
WASTELOAD FO	OR THE	MONTH OF:	0011	EI NO	024	· · · · · · · · · · · · · · · · · · ·	IN	IDIVIDUAL	PERFORM	IING ANAL	YSIS <u>:</u>			
ASSOCIATED P												· · · · · · · · · · · · · · · · · · ·		
Report the rainf Rainfall (in)	all for the Date	24 hour per	iod prior to e Rainfall (in)	each samp Date	le included e	in this repo	ort in the s	paces provi Date	ded below Ra	infall (in)	Date		Rainfall (in)	Date
<u> </u>	<u> </u>	1		Effe	ctive 08/07	/2007 To								
		Quantity							Other Units	} 		Measurement	Sample	
Parameter			Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Frequency	Туре
)1106		Reported									MG/L		Semi-monthly	Grab
Aluminum, Disso	lved (As	Permit Limits	N/A	N/A	N/A	<u></u>		Rpt Only	Rpt Only	Rpt Only			<u> </u>	
		Reported						·						
·		Permit Limits	;											
		Reported		·										
		Permit Limits												
. /		Reported				Í					]			
		Permit Limits	3						<u> </u>					
		Reported									1			
		Permit Limits	3											
		Reported				]								+ 1
		Permit Limits	3									ļ	y .	
		Reported									1 .			
		Permit Limits	s			1								

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Reported
Permit Limits

Date Co	mp	leted
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STATE	OF	WEST	VIR	GINIA

	and the second s
	MONITORING REPOR
I JISU MARUE	

FACILITY NAME: LOCATION OF F PERMIT NO.: V	ACILITY: Loga		SPRUCE NO.	1 MINE	COMMERCIAL LABORATORY NAME: COMMERCIAL LABORATORY ADDRESS:							
WASTELOAD FO	R THE MONTH	l OF:			INDIVIDUAL							
Report the rainfa Rainfall (in)	all for the 24 hou Date	ur period prior to eac Rainfall (in)	h sample includ Date	led in this report in th Rainfall (in)	e spaces provid	led below. Rainfall (in)	Date	Rainfall (in)	Date			

### Effective 08/07/2007 To

		Quantity						Other Units					
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	t Sample Type
00058	Reported			<u> </u>	CDM	٠.							
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported												
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported												
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported												_
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*	See Section of Permit	See Section A of Permit	A  Grab
00981	Reported												
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A	1 .	. •	Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01045	Reported												
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A		į	Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported												
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported						<b></b>				-		
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date	Completed
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ST	AT	FO	FΛ	/EST	VIE	GIN	AIL
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DISCHA	RGE	MONI	TORIN	IG F	REPOR
DIOCEN	CUL	IVICATAL	I OINE		

STATE OF WEST	VIRGIN	NIA .		NΑ	TIONAL PO	OLLUTAN	T DISCHAP	RGE ELIMI	NATION S	YSTEM		פוע	CHARGE MON	HORING REPORT
FACILITY NAME: LOCATION OF FA			AL COMPA	NY: SPRU	CE NO.1 M	INE								
PERMIT NO.: W		121	OUTI	FT NO:	025			OMMENTON						
WASTELOAD FO	R THE	MONTH OF:					- IN	IDIVIDUAL	PERFORM	ING ANA	YSIS:			
ASSOCIATED PE	RMITS:	S501397											<u> </u>	
Report the rainfa	II for the	24 hour perio	od prior to e	ach samp	e included	in this rep	ort in the si	paces provi	ded below					
Rainfall (in)	Date	R	ainfall (in)	Date	)	Rainfal	ll (in)	Date	Ra	infall (in)	Date		Rainfall (in)	Date
		: -		Effe	ctive 08/07/	2007 To							<u> </u>	·
					Quantity					Other Unit	3		Measurement	Sample
Parameter			Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Frequency	Туре
01106		Reported									MG/L		Semi-monthly	Grab
Aluminum, Disso	ved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
		Reported												·
		Permit Limits				,								
		Reported												
		Permit Limits						1.1						
		Reported									]			* *
·		Permit Limits												
		Reported												
		Permit Limits												
		Reported										-  -		
		Permit Limits								<u> </u>	<u> </u>			
		Reported									]			
		Permit Limits												
		Reported									4			
		Permit Limits	<u> </u>		<u>L</u>	<u> </u>	<u> </u>	]			<u> 1</u>	<u></u>		
"I certify under p	enalty o	f law that this	document a	and all atta	chments w	ere prepar	ed					· · · · · ·		
under the directi	on or su	pervision in ad	cordance v	with a syste	em designe	d to assur	re that			ļ	mpleted	<u> </u>		
my inquiry of the	nerson	or persons wit	no manage	the systen	າ. or those ເ	persons di	irectly			Signatu	re/Title of P	rincipal Of	fficer	
responsible for g and belief, true, for submitting fa	accurate se infor	and complete	e I am aw	are that the	ere are sion	ificant per	nalties			•				
knowing violation	15.									L		<del></del>		

			ST			

DISCHARGE	

	ACILITY: Log		SPRUCE NO.	1 MINE	COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:								
NASTELOAD F	OR THE MONT ERMITS: S501	H OF:			INDIVIDUAL P	ERFORMING ANALY	/SIS <u>:</u>						
Report the rain	fall for the 24 ho	our period prior to eac	h sample includ	ded in this report in the Rainfall (in)	ne spaces provide	ed below. Rainfall (in)	Date	Rainfall (in)	Date				
			F#4i 00	/07/2007 To					<u></u>				

		Quantity					Other Units							
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type	
00058	Reported				GPM				y .			Semi-monthly	Estimated	
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	OF IV		N/A	N/A	N/A					
00400	Reported	,				:				Std Units		Semi-monthly	Grab	
рН	Permit Limits	N/A	N/A	N/A		7	6.00	N/A	9.00	Oto Otilito			J. 3.	
00530	Reported									MG/L		Semi-monthly	Grab	
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00					
00545	Reported									ML/L*		See Section A	Grab	
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50			of Permit		
00981	Reported		·							MG/L		Semi-monthly	Grab	
Selenium, Total Recover:	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only					
01045	Reported									MG/L		Semi-monthly	Grab	
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46					
01055	Reported								· ·	MG/L		Semi-monthly	Grab	
Manganese, Total	Permit Limits	N/A	N/A	N/A	]		Rpt Only	2.00	4.00					
01105	Reported									MG/L		Semi-monthly	Grab	
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75		<u> </u>			

Date Completed			
Signature/Title of Principal Officer		- •	
	٠.		•

STATE OF WEST VIRGINIA		NA'	TIONAL PO	OLLUTANT	DISCHAF	RGE ELIMIN	IATION SY	STEM		DIS	CHARGE MONI	TORING REPORT
FACILITY NAME: MINGO LOGAN COALLOCATION OF FACILITY: Logan		COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:  INDIVIDUAL PERFORMING ANALYSIS:										
PERMIT NO.: WV1017021 WASTELOAD FOR THE MONTH OF: _ ASSOCIATED PERMITS: S501397	IN											
Report the rainfall for the 24 hour period	od prior to e	ach sampl	e included	in this repo	ort in the sr	paces provi	ied below.	nfall (in)	Date		Rainfall (in)	Date
Rainfall (in) Date R	Rainfall (in)	Date	<u>,                                      </u>	Rainfall	(In)	Date	Nai	nan (m)	Date		(4.7)	
		Effec	tive 08/07	/2007 To				Other Units				
Parameter	Minimum	Average Monthly	Quantity Max. Daily	Units	Number Exceed.	Minimum	Average	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type

				Quantity			Other Units						Cample	
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type	
01106	Reported									MG/L	-	Semi-monthly	Grab	
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only						
	Reported													
	Permit Limits													
	Reported			,										
	Permit Limits										1			
•	Reported												-	
	Permit Limits	4.1						<u> </u>						
	Reported													
	Permit Limits													
·	Reported							<u> </u>		1				
	Permit Limits										<u> </u>			
	Reported													
	Permit Limits													
	Reported													
	Permit Limits		T		7				7			<u> </u>	1	

Date C	ompleted					
Signat	ure/Title of	Principal	Officer			

STATE	OF	WEST	T VIR	GINIA
UIAIL	- 01	VVLO		~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Date

Rainfall (in)

### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE	MONITORING	REPOR

Date

Rainfall (in)

FACILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE	COMMERCIAL LABORATORY NAME:	
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:	
PERMIT NO.: <u>WV1017021</u> OUTLET NO.: <u>027</u>		· · · · · · · · · · · · · · · · · · ·
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:	
ASSOCIATED PERMITS: S501397		 ,
Report the rainfall for the 24 hour period prior to each sample included in this repo	art in the snaces provided below	

Date

Rainfall (in)

Date

Rainfall (in)

Effective 08/07/2007 To

Date

		Quantity					Other Units						
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported				CRM								
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM I	N/A	N/A	N/A	1 .		Semi-monthly	Estimated	
00400	Reported												, <i>i</i>
рН	Permit Limits	N/A	N/A	N/A			6.00	N/A	9.00	Std Units		Semi-monthly	Grab
00530	Reported											0	0
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported									101.0		Caa Caatian A	O
Settleable Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported									NO.0		0	O1
Selenium, Total Recovers	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grap
01045	Reported									1400		0	0
iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported											0	01
Manganese, Total	Permit Limits	N/A	N/A	N/A	1		Rpt Only	2.00	4.00	MG/L		Semi-monthly	Grab
01105	Reported					·				1400		0	01
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	0.43	0.75	MG/L		Semi-monthly	Grab

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Rainfall (in)

Date Completed		
Signature/Title of Principal Offic	nor	-

STAT	FOF	WEST	VIR	GINI	Α

DISCHARGE	MONITORING	3 REPOR

STATE OF WEST	VIINGII	VIA	<u> </u>	INA	TIONAL P	OLLUTAN	LOISCHAI	RGE ELIMII	VATIONS	131211		UK	CHARGE MON	HORING REPO
FACILITY NAME:	MINGO	LOGANCO	AL COMPA	NY: SPRU	CE NO.1.	AINE	с	OMMERCIA	AL LABOR	ATORY NA	NE:			<u> </u>
LOCATION OF FA								OMMERCI/	AL LABOR	ATORY AD	DRESS: _			
PERMIT NO.: N														
WASTELOAD FO							IN	IDIVIDUAL	PERFORM	ANA EVNIN	LYSIS <u>:</u>			<del></del>
ASSOCIATED PE	:KMI15	3001391	<del>,</del>			<del></del>		<del></del>						
Report the rainfall for the 24 hour period prior to each sample included in this report in the spaces provided be												<u> </u>		
Rainfall (in)	Date	R	tainfall (in)	Date		Rainfal	l (in)	Date	ika	Infall (in)	Date		Rainfall (in)	Date
						1								
				Effe	ctive 08/07	/2007 To				AU 11 11				
				Average	Quantity Max.	<del> </del>	Number		Average	Other Units Max.	s 1	Number	Measurement	Sample
Parameter			Minimum			Units	Exceed.	Minimum		Daily	Units	Exceed.	Frequency	Туре
01106		Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissol	ved (As	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only	1,10/2			
		Reported												
		Permit Limits												
		Reported		,		<u>.</u>								
·	•	Permit Limits						,						-
		Reported												
		Permit Limits									<u> </u>			
		Reported												
		Permit Limits												
		Reported												
		Permit Limits												
		Reported												
		Permit Limits									<u> </u>			
		Reported												
		Permit Limits										<u> </u>		

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed

ST	Ά	TE.	0F	W	<b>EST</b>	VI	RGI	NIA

DISCHARGE	MONITORING	DEDADI
DIOCHIMICE		REFUR

FACILITY NAME: MINGO LOGAN COA	L COMPANY; SPR	UCE NO.1 MI	NE	COMMERCIAL	LABORATORY NAM	/E:		
LOCATION OF FACILITY: Logan		·-	*	COMMERCIAL	LABORATORY ADD	RESS:	· · · · · ·	
PERMIT NO.: <u>WV1017021</u>	OUTLET NO.:	028						
WASTELOAD FOR THE MONTH OF: _				INDIVIDUAL PI	ERFORMING ANALY	'SIS:		
ASSOCIATED PERMITS: S501397			·		<u> </u>			
Report the rainfall for the 24 hour perio	d prior to each sam	ole included in	this report in th	e spaces provide	d below.			
Rainfall (in) Date Ra	ainfall (in) Da		Rainfall (in)	Date	Rainfall (in)	Date	Dainfall (in)	I Data

## Effective 08/07/2007 To

		Quantity				Other Unit	S			T			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00058	Reported												-1
Flow	Permit Limits	Rpt Only	Rpt Only	Rpt Only	GPM		N/A	N/A	N/A	1		Semi-monthly	Estimated
00400	Reported												
pH	Permit Limits	N/A	N/A ⁻	N/A	Ī		6.00	Rpt Only	9.00	Std Units		Semi-monthly	Grab
00530	Reported										:		
Total Suspended Solids	Permit Limits	N/A	N/A	N/A			Rpt Only	35.00	70.00	MG/L		Semi-monthly	Grab
00545	Reported		a.										
Settleable Solids	Permit Limits	N/A	N/A	N/A			N/A	N/A	0.50	ML/L*		See Section A of Permit	Grab
00981	Reported												
Selenium, Total Recover:	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only	UG/L		Semi-monthly	Grab
01045	Reported												
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	1.42	2.46	MG/L		Semi-monthly	Grab
01055	Reported										-		
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	2.00	4.00	MG/L	Semi-monthly	Grab	
01105	Reported												
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	0.43	0.75	MG/L		Semi-monthly G	3rab

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

Date Completed		

STATE OF WES	T VIRGINIA	•	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM						DISCHARGE MONITORING REPOR		
	E: MINGO LOGAN FACILITY: Logan		SPRUCE NO	1 MINE		L LABORATORY NAM L LABORATORY ADI					
WASTELOAD F	OR THE MONTH ( ERMITS: S50139	OF:			INDIVIDUAL F	PERFORMING ANAL'	rsis <u>:</u>				
	fall for the 24 hour			ded in this report in th	ne spaces provid						
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (ir	n) Date		
<u> </u>			Effective 08	3/07/2007 To			<del></del>		<del></del>		

				Quantity					Other Units	<b>.</b>			
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
01106	Reported					1				MG/L		Semi-monthly	Grah
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only		IVIGIL		Semi-monthly	Olab
	Reported												
:	Permit Limits			s .									
	Reported												
	Permit Limits											-	
	Reported		•		į.								
	Permit Limits												
	Reported												·
	Permit Limits												
	Reported						·						
	Permit Limits												
	Reported												
<u> </u>	Permit Limits												
	Reported												
	Permit Limits												

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Date Completed								
Signature/Title of Principal Office	ər							
	•							

STATE OF WEST VIRG	iΙΝ	IA
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DISCHARGE	MONITORI	NG REPOR

FACILITY NAME: MINGO LOGAI LOCATION OF FACILITY: Logar PERMIT NO.: WV1017021	1	NO.: DOB	MINE	COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:					
VASTELOAD FOR THE MONTH OF: USSOCIATED PERMITS: S501397				INDIVIDUAL PERFORMING ANALYSIS:					
Report the rainfall for the 24 hou Rainfall (in) Date	r period prior to eac	h sample included Date	in this report in th Rainfall (in)	e spaces provid Date	ed below. Rainfall (in)	Date	Rainfall (in)	Date	

#### Effective 08/07/2007 To

		Quantity					Other Units	<u> </u>					
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only	013		N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
рН	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	Old Office			
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	00/2			
01045	Reported						`			MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported						-	·		MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported			·						MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only		<u> </u>		
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only			,	
	Reported							-					
	Permit Limits				<u> </u>						<u> </u>	<u> </u>	

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Date Completed		
Signature/Title of Principal Officer	1	_

STATE	OF	WEST	<b>VIRGINIA</b>

DISCHARGE	MONITORING	REPOR
DISCHARGE	MICHAL! OUMO	LATE OF

EAGUSTIVALE.		100411004	COMBAN	IV. CDDI I	SE NO 1 M	INE	C	OMMERCIA	L LABOR	ATORY NA	ME:				
FACILITY NAME:			LCOMPA	NI, SERUI	<u>√5 180.1-181</u>			COMMERCIAL LABORATORY ADDRESS:							
LOCATION OF FA	CILITY:	Logan 21	OUTU	FT NO - I	)PB										
WASTELOAD FOI	R THE N	MONTH OF:					IN	DIVIDUAL	PERFORM	AING ANAL	YSIS:				
ASSOCIATED PE	RMITS:	S501397		-											
Report the rainfa	II for the	24 hour perio	d prior to e	ach sampl	e included	in this repo	ort in the s	oaces provi	ded below		Date		Rainfall (in)	Date	
Rainfall (in)	Date	R	ainfall (in)	Date		Rainfall	l (in)	Date	Ra	infall (in)	Date		Tumum (m)		
				Effe	ctive 08/07	/2007 10				Other Unit	s				
				Average	Quantity Max.	<del></del>	Number		Average			Number	Measurement	Sample	
Parameter			Minimum	Average Monthly	Daily	Units		Minimum			Units	Exceed.	Frequency	Туре	
00004		Reported											Semi-monthly	Estimated	
00061		*		Dut Oals	Dat Oak	CFS	1	N/A	N/A	N/A	1	_			
Stream Flow cfs		Permit Limits	Rpt Only	Rpt Only	Rpt Only	<u> </u>		1377							
00400	,	Reported				1					Std Units		Semi-monthly	Grab	
pН		Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only		<del> </del>	1		
00981		Reported			1						UG/L		Semi-monthly	Grab	
Selenium, Total F	Recover	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	Rpt Only					
		Reported									-MG/L	ŀ	Semi-monthly	Grab	
01045					N/A			Rot Only	Rot Only	Rpt Only	- IVIOIL				
Iron, Total (As Fe	)	Permit Limits	N/A	N/A	IN/A	-		1,,,,,	1 40 4 4 4						
01055		Reported				1		-		<u> </u>	-MG/L		Semi-monthly	Grab	
Manganese, Tota	al :	Permit Limits	N/A	N/A	N/A		<u> </u>	Rpt Only	Rpt Only	Rpt Only					
01105		Reported									MG/L		Semi-monthly	Grab	
Aluminum, Total	(as Al)	Permit Limits	N/A	N/A	N/A	7	1	Rpt Only	Rpt Only	Rpt Only					
		Reported									MG/L		Semi-monthly	Grab	
01106		1 :			N/A	1		Rot Only	Rpt Only	Rpt Only			Cerns-monthly		
Aluminum, Disso	olved (As		N/A	N/A	N/A		+	Type Offiny	1 (2.0.11)		1	1			
		Reported				_				<del></del>					
		Permit Limits	s (										<u></u>		

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Date Complete
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ST	ΔТ	F	OF	W	EST	ľV	IRGINIA	

DISCHAR	SE MONITOR	ING REPOR

FACILITY NAME: LOCATION OF FA PERMIT NO.: W	ACILITY: Log		: SPRUCE NO	.1 MINE		L LABORATORY NAM L LABORATORY ADD			
WASTELOAD FO	R THE MONT	'H OF:			INDIVIDUAL I	PERFORMING ANALY	'SIS:		
Report the rainfa Rainfall (in)	III for the 24 ho	our period prior to eac Rainfall (in)	h sample inclu Date	ded in this report in th Rainfall (in)	e spaces provid Date	led below. Rainfall (in)	Date	Rainfall (in)	Date

## Effective 08/07/2007 To

	Quantity					Other Units							
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00061	Reported				CFS		-					Cami maath	Falinatad
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only	CFS		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported						-			CALL LINE	-	0	01
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	Std Units		Semi-monthly	Grab
00981	Reported		,							1100		0	<b>.</b>
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	UG/L		Semi-monthly	Grab
01045	Reported			·						MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									MG/L		Cami maathk	Cash
Manganese, Total	Permit Limits	N/A	N/A	N/A	. "		Rpt Only	Rpt Only	Rpt Only	IVIG/L	•	Semi-monthly	Grab
01105	Reported							• .		MOD		C :	Ö
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L	* .	Semi-monthly	Grab
01106	Reported									MCII		C	Oh
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grad
	Reported												
·	Permit Limits												

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D-4-	Camalakad
Date	Completed

	OF WEAT	MOCINUA
STATE	OF WEST	VIKGINIA

DISCHARGE	MONITORING	REPOR

FACILITY NAME: <u>MINGO LOGAN COAI</u> LOCATION OF FACILITY: Logan PERMIT NO.: <u>WV1017021</u>	COMPANY; SPRUCE NO.1 OUTLET NO.: DSF	MINE		LABORATORY NAM LABORATORY ADD	the state of the s		
WYTOTAGE WASTELOAD FOR THE MONTH OF: ASSOCIATED PERMITS: S501397			INDIVIDUAL F	ERFORMING ANALY	/SIS <u>:</u>		
Report the rainfall for the 24 hour period Rainfall (in) Date Ra	prior to each sample include	ed in this report in the	e spaces provid Date	ed below. Rainfall (in)	Date	Rainfall (in)	Date
Trainiai (ii)	Effective 08/6				I		<u> </u>

	Quantity				Other Units					Measurement	Sample		
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Туре
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A			. :	
00400	Reported	-	1 1 6							Std Units		Semi-monthly	Grab
рH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A	Ì	<u> </u>	Rpt Only	Rpt Only	Rpt Only				
01045	Reported									MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A	]		Rpt Only	Rpt Only	Rpt Only	ļ			
01055	Reported							.,		MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L	ļ	Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
	Reported								_				
	Permit Limits							<u> </u>		<u></u>	1		<u> </u>

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Date Complet	ec
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DISCHARGE	LICALITA SILL	~ ~ ~ ~ ~ ~
DISCHARGE	MUNITEDINI	S DEDUD

FACILITY NAME: MINGO LOGAN COAL COMPANY: SPRUCE NO 1 MINE	COMMERCIAL LABORATORY NAME:	· ·
LOCATION OF FACILITY: Logan	COMMERCIAL LABORATORY ADDRESS:	
PERMIT NO.: WV1017021 OUTLET NO.: DWOB	OOMINICIONE EADONATORT ADDRESS.	
WASTELOAD FOR THE MONTH OF:	INDIVIDUAL PERFORMING ANALYSIS:	
ASSOCIATED PERMITS: S501397		
Report the rainfall for the 24 hour period prior to each sample included in this report	t in the spaces provided below	
Poinfall (in) Date Date (in) I Date	it in the spaces provided below.	
Rainfall (in) Date Rainfall (in) Date Rainfall (	(in) Date Rainfall (in) Date	Rainfall (in) Date

### Effective 08/07/2007 To

		Quantity			Other Units				1				
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00061	Reported												
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only	CFS		N/A	N/A	N/A			Semi-monthly	Estimated
00400	Reported									1			
рH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	Std Units		Semi-monthly	Grab
00981	Reported								, the Giny			.  -	
Selenium, Total Recover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rnt Only	UG/L	Semi-monthly	Grab	
01045	Reported		-					, , , , ,	, p. oy				
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A	·		Rpt Only	Rpt Only	Rnt Only	MG/L		Semi-monthly	Grab
01055	Reported												
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rot Only	MG/L		Semi-monthly	Grab
01105	Reported								, p. O.l.y				
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	MG/L		Semi-monthly	Grab
01106	Reported								,,,,				
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rot Only	Rnt Only	MG/L		Semi-monthly	Grab
	Reported								r.p. Omy				
	Permit Limits												•

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Date	Completed
Duic	Completed

STATE	OF	WEST	VIR	GINIA
SIAIE	uг	VVCOI	V 11 \	CIITIO

MONITORING	

Semi-monthly Grab

FACILITY NAME:	MINGO	LOGAN CO	AL COMPA	NY: SPRU	CE NO 1 N	MINE				RATORY NA				<del></del>
LOCATION OF FA	CILITY:	Logan		<u> </u>			()	OMMERCIA	AL LABO	RATORY AD	DRESS: _		: 	
PERMIT NO.: W	V10170	21 .	OUTL	ET NO.: _	USCB			Charles A1	DEDEAL	RMING ANAL	Veie			
WASTELOAD FOR					····		IN	DIVIDUAL	PERFOR	KIVIING ANAL	1313			
ASSOCIATED PER	RMITS:	S501397						Derila was and an analysis of the same of						
Report the rainfal	I for the	24 hour peri	od prior to e	each samn	le included	in this reno	ort in the sr	naces p <b>rovi</b>	ded belo	w.			:	
Rainfall (in)	Date	F	Rainfall (in)	Date		Rainfall	(in)	Date	F	Rainfall (in)	Date		Rainfall (in)	Date
			7	Effe	ctive 08/07 Quantity	/2007 10				Other Units				
la casi c					Average Max.		Number	<u> </u>	Average			Number	Measurement	Sample
Parameter			Minimum		Daily	Units	Exceed.	Minimum	Monthly		Units	Exceed.	Frequency	Туре
00061		Reported				CFS	CFS -						Semi-monthly	Estimated
Stream Flow cfs		Permit Limits	Rpt Only	Rpt Only	Rpt Only			N/A	N/A	N/A				·
00400		Reported									Std Units	Semi-monthly	Grab	
рН		Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only			Genn-morniny	
00981		Reported			•						UG/L	ì	Semi-monthly	Grab
Selenium, Total R	ecover	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	y Rpt Only				
01045		Reported									MG/L		Semi-monthly	  Grab
Iron, Total (As Fe)	) .	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Only	y Rpt Only				
01055		Reported									MG/L		Semi-monthly	Grab
  Manganese, Total	1	Permit Limits	N/A	N/A	N/A	1	_	Rpt Only	Rpt Only	y Rpt Only	]			
01105		Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (	as Al)	Permit Limits	N/A	N/A	N/A	1		Rpt Only	Rpt Onl	y Rpt Only	Jillo/L		John Monday	

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N/A

N/A

Reported

Reported
Permit Limits

Aluminum, Dissolved (As Permit Limits N/A

01106

Date	Comp	letec
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Rpt Only Rpt Only

Rpt Only

MG/L

	IRGINIA

DISCHARGE	MONITORING	REPOR

STATE OF WE	SI VIICIINA		101110101	ET CEEC IT WITH BIOC	TO COL ELIMINA	/ (			
LOCATION OF	FACILITY: Lo	gan		1 MINE		L LABORATORY NAI L LABORATORY ADI			
WASTELOAD F	CILITY NAME: MINGO LOGAN COAL COMPANY; SPRUCE NO.1 MINE CATION OF FACILITY: Logan RMIT NO.: WV1017021 OUTLET NO.: USF STELOAD FOR THE MONTH OF: SOCIATED PERMITS: S501397  SPORT THE RAINFAIL FOR THE 24 hour period prior to each sample included in this report		INDIVIDUAL F	PERFORMING ANAL	YSIS <u>:</u>				
								1	· ·
Report the rain	fall for the 24 h	nour period prior to eac	h sample inclu	ded in this report in th	e spaces provid	ed below.			
Rainfall (in)				Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date
				,					
<u> </u>	1		Effective 08	3/07/2007 To	. •				

		Quantity					Other Units						•
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only	CFS		N/A	N/A	N/A			Community	Lounacca
00400	Reported									Std Units		Cami manthly	Grah
pH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	Stu Oliits		Semi-monthly	Glab
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recovera	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only			Community	
01045	Reported									-MG/L		Semi-monthly	Grab
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported			4						MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	IVIOIL			
01105	Reported						7			MG/L		Semi-monthly	Grah
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only	WIGIL		Octin-monany	Ciab
01106	Reported									MG/L	·	Semi-monthly	Grah
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only			ocini-monthly	O, un
	Reported												
	Permit Limits				1								

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Date Completed		
Date Completed	* a *	*

STATE	OF	WEST V	IRGINIA

	MONITORING	
DISCHARGE	MUMILICIANS	KFFUR

LOCATION OF	FACILITY: Log		SPRUCE NO.1 M	IINE	COMMERCIAL LABORATORY NAME:  COMMERCIAL LABORATORY ADDRESS:							
PERMIT NO.: WASTELOAD F ASSOCIATED F	OR THE MONT	TH OF:	No <u>5000</u>		INDIVIDUAL PERFORMING ANALYSIS:							
						and the same	and the second s					
Report the rain	ofall for the 24 h	our period prior to eac	h sample included	in this report in the	ne spaces provid	ed below.	The second second	1 m : ( 11 ( 1 ) : :	I Date			
Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date	Rainfall (in)	Date			

#### Effective 08/07/2007 To

	Quantity					Other Units							
Parameter		Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Minimum	Average Monthly	Max. Daily	Units	Number Exceed.	Measurement Frequency	Sample Type
00061	Reported				CFS							Semi-monthly	Estimated
Stream Flow cfs	Permit Limits	Rpt Only	Rpt Only	Rpt Only	CFS		N/A	N/A	N/A				
00400	Reported									Std Units		Semi-monthly	Grab
рH	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
00981	Reported									UG/L		Semi-monthly	Grab
Selenium, Total Recovers	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only		<u> </u>		
01045	Reported									MG/L	Semi-monthly	Grab	
Iron, Total (As Fe)	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01055	Reported									-MG/L		Semi-monthly	Grab
Manganese, Total	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
01105	Reported									MG/L		Semi-monthly	Grab
Aluminum, Total (as Al)	Permit Limits	N/A	N/A	N/A	·		Rpt Only	Rpt Only	Rpt Only				
01106	Reported									MG/L		Semi-monthly	Grab
Aluminum, Dissolved (As	Permit Limits	N/A	N/A	N/A			Rpt Only	Rpt Only	Rpt Only				
N	Reported							1.					
	Permit Limits				5		<u> </u>				<u> </u>		<u></u>

"I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations."

D-4-	^	ام مدما.
Date	Comp	neteo